

NACOmatic

Effective: 22-October-2009

Expires: 17-December-2009

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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626
800 Independence Ave., SW
Washington, DC 20591
Telephone 1-866-295-8236
Fax 202-267-5322
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Effective Date	Airport Information Cut-off date	Airspace Information* Cut-off date
22 Oct 09	9 Sep 09	20 Aug 09
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10

*Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

FAA, National Aeronautical Charting Office, ATO-W
SSMC-4 Sta. #2335
1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our web site at www.naco.faa.gov.
See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

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Distribution Division, ATO-W
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Glenn Dale, MD 20769-9700
Online at www.naco.faa.gov
Email 9-AMC-Chartsales@faa.gov
Telephone 1-800-638-8972
Fax 301-436-6829
or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dspld	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	flt	flight
ATC	Air Traffic Control	flw	follow
Aug	August	Fri	Friday
AUW	All Up Weight (gross weight)	FSS	Flight Service Station
avbl	available	GA	glide angle
bcn	beacon	GCA	Ground Controlled Approach
blo	below	GS	glide slope
		haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invo	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
lgt	lighted	rstd	restricted
lgts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rw	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MICALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmpry	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather

DIRECTORY LEGEND

SAMPLE

① CITY NAME
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER
 ④ ⑤ ⑥ ⑦ ⑧ ⑨ H-46, L-19C IAP, DIAP, AD

⑩ RWY 18-36: H12004X200 (ASPH-CONC-GRVD)
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.
 RWY 36: ALSF1. 0.4% down.
 RWY 09-27: H6000X150 (ASPH) MIRL
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

⑪ LAND AND HOLD SHORT OPERATIONS
 LANDING HOLD SHORT POINT DIST AVBL
 RWY 18 09-27 6500
 RWY 36 09-27 5400

⑫ RUNWAY DECLARED DISTANCE INFORMATION
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

⑬ ARRESTING GEAR/SYSTEM
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

⑭ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑮ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← ⑯
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

⑰ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service
 (ADCUS) avbl.

⑱ MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15
 minutes prior to ldg and after dep. Limited tran parking.

⑳ WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.

㉑ COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2
 NAME RCO 112.2T 112.1R (NAME RADIO)
 ⑳ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

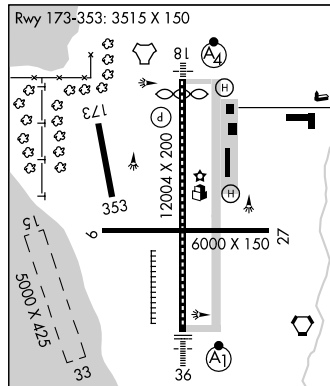
㉓ AIRSPACE: CLASS B See VFR Terminal Area Chart.

㉔ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.
 ASR/PAR (1200-0400Z†)

㉕ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)
 HELIPAD H2: H60X60 (ASPH)
 HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)
 WATERWAY 15-33: 5000X425 (WATER)
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.
 All mileages are nautical unless otherwise noted.

All times are Coordinated Universal Time (UTC) except as noted.

All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.

The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10

SKETCH LEGEND

RUNWAYS/LANDING AREAS

Hard Surfaced	
Metal Surface	
Sod, Gravel, etc.	
Light Plane,	
Ski Landing Area or Water	
Under Construction	
Closed	
Helicopter Landings Area	
Displaced Threshold	
Taxiway, Apron and Stopways ..	






MISCELLANEOUS BASE AND CULTURAL FEATURES

Buildings	
Power Lines	
Fence	
Towers	
Tanks	
Oil Well	
Smoke Stack	
Obstruction	
Controlling Obstruction	
Trees	
Populated Places	
Cuts and Fills	
Cliffs and Depressions ..	
Ditch	
Hill	

RADIO AIDS TO NAVIGATION

















VORTAC ...		VOR	
VOR/DME ..		NDB	
TACAN		NDB/DME	

MISCELLANEOUS AERONAUTICAL FEATURES

Airport Beacon	
Wind Cone	
Landing Tee	
Tetrahedron	
Control Tower	

APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g. (A1) Negative symbology, e.g., (A1) (V) indicates Pilot Controlled Lighting (PCL).

Runway Centerline Lighting	
(A) Approach Lighting System ALSF-2 ..	
(A1) Approach Lighting System ALSF-1 ..	
(A2) Short Approach Lighting System SALS/SALSF	
(A3) Simplified Short Approach Lighting System (SSALR) with RAIL	
(A4) Medium Intensity Approach Lighting System (MALSR and MALSF)/(SSALS and SSALF)	
(A5) Medium Intensity Approach Lighting System (MALSR) and RAIL	
(P) Omnidirectional Approach Lighting System (ODALS)	
(D) Navy Parallel Row and Cross Bar ..	
(F) Air Force Overrun	
(V) Visual Approach Slope Indicator with Standard Threshold Clearance provided	
(V2) Pulsating Visual Approach Slope Indicator (PVASI)	
(V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft	
(V4) Tri-color Visual Approach Slope Indicator (TRCV)	
(V5) Approach Path Alignment Panel (APAP)	
(P) Precision Approach Path Indicator (PAPI)	

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Nav aids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARNG	US Army National Guard	P	US Civil Airport Wherein Permit Covers
CG	US Coast Guard		Use by Transient Military Aircraft
CIV/MIL	Joint Use Civil/Military	PVT	Private Use Only (Closed to the Public)
DND	Department of National Defense Canada		

⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

⑦ GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

⑧ CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER.

⑨ INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAM

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5-4-5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

⑩ AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

⑪ ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

⑫ ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

⑬ SERVICING—CIVIL

S1: Minor airframe repairs.	S5: Major airframe repairs.
S2: Minor airframe and minor powerplant repairs.	S6: Minor airframe and major powerplant repairs.
S3: Major airframe and minor powerplant repairs.	S7: Major powerplant repairs.
S4: Major airframe and major powerplant repairs.	S8: Minor powerplant repairs.

⑭ FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP-4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP-5 military specification) Kerosene with FS-11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS-II*, FP** minus 40° C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP-8.
A+	Jet A, Kerosene, with FS-II*, FP** minus 40° C.	J	(Jet Fuel Type Unknown)
A1	Jet A-1, Kerosene, without FS-II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A-1, Kerosene with FS-II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS-II*, FP** minus 50° C.		

*(Fuel System Icing Inhibitor)

**(Freeze Point)

NOTE: Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

⑮ OXYGEN—CIVIL

OX 1 High Pressure	OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure	OX 4 Low Pressure—Replacement Bottles

⑯ TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

18 CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS
AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

14 CFR—PART 139 CERTIFICATED AIRPORTS**INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS**

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
A	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H ₂ O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥5 ----- <5	Index A + 1500 gal H ₂ O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥5 ----- <5	Index A + 3000 gal H ₂ O
D	3	≥159', <200' ----- >200'	<5	Index A + 4000 gal H ₂ O
E	3	≥200'	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMS are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMS are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as STOL, Ultralight, or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking, landing mats, membranes	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	(PEM)—Part concrete, part asphalt	(TURF)—Turf
(DIRT)—Dirt	(PFC)—Porous friction courses	(TRTD)—Treated
(GRVD)—Grooved		(WC)—Wire combed

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R — Rigid
 - F — Flexible
- (3) The pavement subgrade category:
 - A — High
 - B — Medium
 - C — Low
 - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
 - W — High, no limit
 - X — Medium, limited to 217 psi
 - Y — Low, limited to 145 psi
 - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
 - T — Technical evaluation
 - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL APAP on left side of runway

PNIR APAP on right side of runway

PAPI—Precision Approach Path Indicator

P2L 2-identical light units placed on left side of runway

P4L 4-identical light units placed on left side of runway

P2R 2-identical light units placed on right side of runway

P4R 4-identical light units placed on right side of runway

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

PSIL PVASI on left side of runway

PSIR PVASI on right side of runway

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

S2L 2-box SAVASI on left side of runway

S2R 2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL TRCV on left side of runway

TRIR TRCV on right side of runway

VASI—Visual Approach Slope Indicator

V2L 2-box VASI on left side of runway

V6L 6-box VASI on left side of runway

V2R 2-box VASI on right side of runway

V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway

V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway

V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.



ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw

MD-4	AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire
AIR STARTING UNITS	
AM32-95	150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
AM32A-95	150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
LASS	150 +/- 5 lb/min @ 49 +/- 2 psia
MA-1A	82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
MC-1	15 cfm, 3500 psia
MC-1A	15 cfm, 3500 psia
MC-2A	15 cfm, 200 psia
MC-11	8,000 cu in cap, 4000 psig, 15 cfm
COMBINED AIR AND ELECTRICAL STARTING UNITS:	
AGPU	AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level
AM32A-60*	AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw
AM32A-60A	AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
AM32A-60B*	AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.	
USN JASU	
ELECTRICAL STARTING UNITS:	
NC-8A/A1	DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
NC-10A/A1/B/C	DC: 750 amp constant, 1000 amp intermittent, 28v; AC: 90 kva, 115/200v, 3 phase, 400 Hz.
AIR STARTING UNITS:	
GTC-85/GTE-85	120 lbs/min @ 45 psi.
MSU-200NAV/A/U47A-5	204 lbs/min @ 56 psia.
WELLS AIR START SYSTEM	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.
COMBINED AIR AND ELECTRICAL STARTING UNITS:	
NCPP-105/RCPT	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.
JASU (ARMY)	
59B2-1B	28v, 7.5 kw, 280 amp.
OTHER JASU	
ELECTRICAL STARTING UNITS (DND):	
CE12	AC 115/200v, 140 kva, 400 Hz, 3 phase
CE13	AC 115/200v, 60 kva, 400 Hz, 3 phase
CE14	AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15	DC 22-35v, 500 amp continuous 1100 amp intermittent
CE16	DC 22-35v, 500 amp continuous 1100 amp intermittent soft start
AIR STARTING UNITS (DND):	
CA2	ASA 45.5 psig, 116.4 lb/min
COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)	
CEA1	AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig
ELECTRICAL STARTING UNITS (OTHER)	
C-26	28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-B, C-26-C	28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
E3	DC 28v/10kw
AIR STARTING UNITS (OTHER):	
A4	40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
MA-1	150 Air HP, 115 lb/min 50 psia
MA-2	250 Air HP, 150 lb/min 75 psia
CARTRIDGE:	
MXU-4A	USAF

(25) FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY**CODE**

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
ORXB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

(27) OIL—MILITARY

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute backup, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers.

SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on aprt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol  indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z+" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc **APP CON** other times CLASS E:

or

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc **APP CON** other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

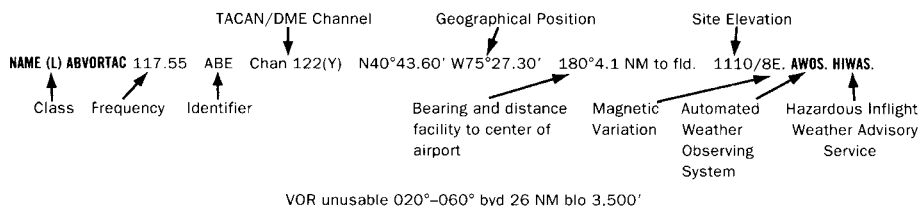
Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

34 RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDS.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the “Y” mode to receive distance information.

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance (NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.

ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance
Classification Code

FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

(35) COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

ACKLEY MUNI (4C7) 1 SE UTC-6(-5DT) N42°32.85' W93°02.01'

OMAHA

1070 NOTAM FILE FOD

RWY 15-33: 2725X100 (TURF)

RWY 15: Fence.

RWY 33: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Apr. Radio controlled aircraft activity.

COMMUNICATIONS: CTAF 122.9

ALBIA MUNI (4C8) 3 SE UTC-6(-5DT) N40°59.67' W92°45.78'

CHICAGO

963 B FUEL 100LL NOTAM FILE FOD

RWY 13-31: H3400X60 (ASPH) S-15 MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 30'. P-line.

RWY 31: PAPI(P2L)—GA 3.0° TCH 30'. Tree.

AIRPORT REMARKS: Unattended. For svc call 515-932-7815. Rwy 13 is calm wind rwy. ACTIVATE PAPI Rwy 13 and Rwy 31—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

⑧ CHICAGO CENTER APP/DEP CON 118.15

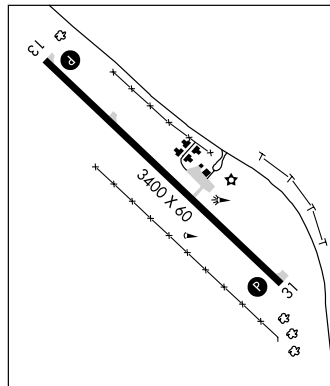
RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

OTTUMWA (L) VORW/DME 111.6 OTM Chan 53 N41°01.75'

W92°19.56' 258° 20.0 NM to fld. 820/6E. HIWAS.

L-121, 27A

IAP

**ALGONA MUNI** (AXA) 2 W UTC-6(-5DT) N43°04.67' W94°16.32'

OMAHA

1219 B S4 FUEL 100LL, JET A NOTAM FILE AXA

RWY 12-30: H3960X75 (CONC) S-30, D-48 MIRL

RWY 12: REIL. SAVASI(S2L). Road.

RWY 30: REIL. SAVASI(S2R). Road.

RWY 18-36: 2880X160 (TURF) 0.3% up N

RWY 18: Road.

RWY 36: Fence.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z, Sat 1400-1800Z. Rwy 12 is calm wind rwy. Rwy 18-36 marked with yellow cones. ACTIVATE MIRL Rwy 12-30, REIL and SAVASI Rwy 12 and Rwy 30—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.475 (515) 295-9634.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 134.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

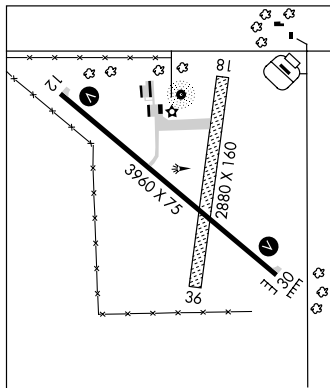
FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 355° 28.0 NM to fld. 1164/7E. HIWAS.

NDB (MHW) 403 AXA N43°04.88' W94°16.35' at fld.

NOTAM FILE AXA.

IAP

**ALLISON MUNI** (K98) 0 NW UTC-6(-5DT) N42°45.83' W92°48.26'

CHICAGO

1053 TPA-1853(800) NOTAM FILE FOD

RWY 18-36: 1790X175 (TURF)

RWY 36: Pole.

AIRPORT REMARKS: Unattended. Arpt CLOSED winter months. Arpt CLOSED to ngt ops. Rwy 36 is calm wind rwy. Rwy 18 and Rwy 36 thlds and edges marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

AMANA (C11) O SE UTC-6(-5DT) N41°47.62' W91°51.89'

CHICAGO

712 NOTAM FILE FOD

RWY 08-26: 2600X95 (TURF)

RWY 08: P-line.

RWY 26: Tree.

AIRPORT REMARKS: Attended Mar-Nov irregularly. Arpt CLOSED from first snow to early spring. Rwy 08 and Rwy 26 thlds and edges marked with yellow cones. Ditches at rwy edges. Landing fee.

COMMUNICATIONS: CTAF 122.9

AMES MUNI (AMW) 2 SE UTC-6(-5DT) N41°59.52' W93°37.31'

OMAHA

956 B S4 FUEL 100, JET A NOTAM FILE AMW

H-5C, L-12J

RWY 01-19: H5701X100 (ASPH) S-30, D-38 MIRL 0.6% up S

IAP

RWY 01: MALSR. Tree. Rgt tfc.

RWY 19: VASI(V4L)—GA 3.0° TCH 40'. Tree.

RWY 13-31: H3491X100 (ASPH) S-17 MIRL

RWY 13: VASI(V4L)—GA 3.0° TCH 43'. Tree. Rgt tfc.

RWY 31: VASI(V4L)—GA 3.0° TCH 36'. Tree.

AIRPORT REMARKS: Attended dawn-dusk. Be alert for glider and ultralight ops invof arpt. Bird activity on and invof arpt spring and fall. Rwy 01 is calm wind rwy. ACTIVATE MIRL Rwy 01-19 and Rwy 13-31, MALSR Rwy 01, VASI Rwy 13, Rwy 31 and Rwy 19-126.0.

WEATHER DATA SOURCES: ASOS 132.025 (515) 233-2611.

COMMUNICATIONS: CTAF/UNICOM 122.7

Ⓡ DES MOINES APP/DEP CON 123.9 CLNC DEL 126.0

RADIO AIDS TO NAVIGATION: NOTAM FILE TNU.

NEWTON (L) VOR/DME 112.5 TNU Chan 72 N41°47.03'

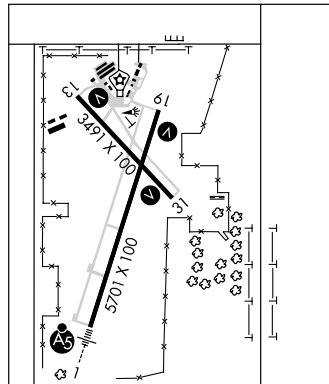
W93°06.54' 296° 26.2 NM to fld. 980/3E.

MERLE NDB (LOM) 362 EE N41°54.18' W93°39.53' 013° 5.6

NM to fld. Unmonitored.

ILS 110.7 I-EEE Rwy 01. LOM MERLE NDB. Glideslope

unusable byd 5° left and 3.5° right of LOC course. ILS unmonitored.



ANITA MUNI-KEVIN BURKE MEM FLD (Y43) 1 S UTC-6(-5DT) N41°26.42' W94°46.18'

OMAHA

1251 TPA-2151(900) NOTAM FILE FOD

RWY 05-23: 2825X95 (TURF) LIRL

RWY 05: Tree.

RWY 23: Tree.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. Rwy 05-23 sides and thlds marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

AUDUBON CO (ADU) 1 SE UTC-6(-5DT) N41°42.08' W94°55.23'

OMAHA

1287 B FUEL 100LL, MOGAS NOTAM FILE ADU

L-121

RWY 14-32: H3640X60 (CONC) S-15 MIRL

IAP

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Thld dsplcd 130'. Pole.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Pole.

AIRPORT REMARKS: Attended 1200-0000Z+. Rotating bcn OTS indef.

Rwy 32 REIL OTS indef. ACTIVATE MIRL Rwy 14-32 and PAPI and

REIL Rwy 14 and Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.075 (712) 563-2101.

COMMUNICATIONS: CTAF/UNICOM 122.8. CTAF OTS indef.

MINNEAPOLIS CENTER APP/DEP CON 119.6

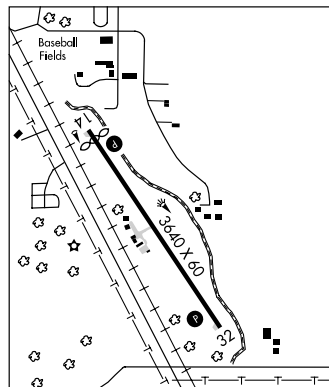
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

OMAHA (H) VORTAC 116.3 OVR Chan 110 N41°10.04'

W95°44.20' 041° 48.8 NM to fld. 1300/8E. HIWAS.

NDB (MHW) 266 ADU N41°41.42' W94°54.60' at fld.

NOTAM FILE ADU. NDB unusable byd 12 NM.



AUNEY N41°41.69' W90°39.35' NOTAM FILE FOD.

CHICAGO

NDB (LOM) 353 DV 148° 5.9 NM to Davenport Muni. Unmonitored.

BARRO N42°30.87' W94°18.34' NOTAM FILE FOD.

OMAHA

NDB (LOM) 341 FO 061° 5.5 NM to Fort Dodge Rgnl.

BEDFORD MUNI (Y46) 2 S UTC-6(-5DT) N40°38.27' W94°43.76'

OMAHA

1201 NOTAM FILE FOD

RWY 18-36: 2710X100 (TURF)

RWY 18: Tree.

AIRPORT REMARKS: Unattended. Sharp drop at both ends Rwy 18-36. Rwy 18-36 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

BELLE PLAINE MUNI (TZT) 1 SW UTC-6(-5DT) N41°52.73' W92°17.08'

CHICAGO

771 B S2 FUEL 100LL NOTAM FILE FOD

L-28F

RWY 18-36: H4000X75 (CONC) MIRL

IAP

RWY 18: Building. RWY 36: Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z+. Arpt attendant on

call 641-821-0015. Birds on and invof arpt. ACTIVATE MIRL Rwy

18-36—122.8. ACTIVATE rotating bcn—122.8.

COMMUNICATIONS: CTAF 122.9

Ⓡ CEDAR RAPIDS APP/DEP CON 119.7 (1100-0530Z+)

CHICAGO CENTER APP/DEP CON 132.8 (0530-1100Z+)

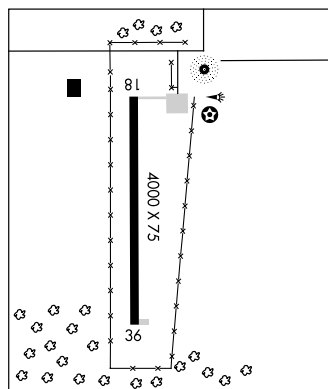
RADIO AIDS TO NAVIGATION: NOTAM FILE CID.

CEDAR RAPIDS (H) VORW/DME 114.1 CID Chan 88 N41°53.25'

W91°47.14' 264° 22.4 NM to fld. 870/5E.

NDB (MHW) 371 TZT N41°53.13' W92°16.99' at fld. NOTAM

FILE FOD.



BELMONT MUNI (Y48) 1 E UTC-6(-5DT) N42°51.16' W93°35.68'

OMAHA

1201 NOTAM FILE FOD

RWY 17-35: 3245X95 (TURF) LIRL (NSTD)

RWY 35: Tree.

AIRPORT REMARKS: Unattended. Arpt CLOSED Dec-Mar except PPR 641-444-3386. Loose gravel in tiedown area and twys very rough. Rwy 17-35 marked with yellow cones. Rwy 17-35 NSTD LIRL, lgts mounted on nonfrangible stakes. ACTIVATE LIRL Rwy 17-35—CTAF.

COMMUNICATIONS: CTAF 122.9**BLOOMFIELD MUNI** (4K6) 2 SW UTC-6(-5DT) N40°43.93' W92°25.70'

CHICAGO

888 B S4 FUEL 100LL NOTAM FILE FOD

L-27A

RWY 18-36: H3401X50 (CONC) S-28, D-20 MIRL

IAP

RWY 18: Trees.

RWY 36: Road.

AIRPORT REMARKS: Attended Mon-Fri 1430-2330Z, Sat 1500-1800Z. For svc after hrs call 641-664-1607. ACTIVATE MIRL Rwy 18-36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ CHICAGO CENTER APP/DEP CON 118.15

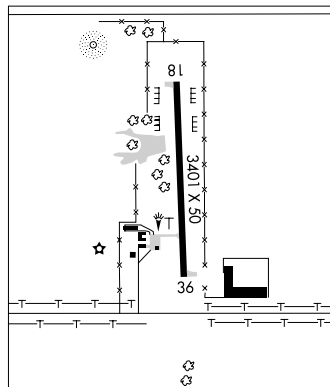
RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

OTTUMWA (L) VOR/DME 111.6 OTM Chan 53 N41°01.75'

W92°19.56' 189° 18.4 NM to fld. 820/6E. HIWAS.

NDB (MHW) 269 BEX N40°44.70' W92°25.83' at fld.

NOTAM FILE FOD.

**BOONE MUNI** (BNW) 2 SE UTC-6(-5DT) N42°02.97' W93°50.86'

OMAHA

1160 B S2 FUEL 100LL, JET A, MOGAS NOTAM FILE BNW

L-12A

RWY 15-33: H4807X75 (ASPH-CONC) S-30 MIRL

IAP

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Thld dsplcd 140'. Tree.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Rgt tfc.

RWY 02-20: 3298X145 (TURF)

RWY 02: Rgt tfc.

RWY 20: P-lines.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 15: TORA-4807 TODA-4807 ASDA-4807 LDA-4667

RWY 33: TORA-4667 TODA-4807 ASDA-4807 LDA-4807

AIRPORT REMARKS: Attended Apr-Sep Mon-Thur 1500-0100Z, Fri-Sat 1400-0100Z, Sun 1400-2300Z, Oct-Mar Mon-Thur 1500-2300Z, Fri-Sun 1400-2300Z. OT call 515-795-2306 or 515-298-2934. Arpt unattended holidays and when ceiling is less than 400' or the visibility is less than one mile. For fuel on holidays or after hrs call 515-795-2306. Parachute jumping on invof arpt. Rwy 02-20 marked with yellow cones. Rwy 15 REIL OTS indef. ACTIVATE MIRL Rwy 15-33 and REIL Rwy 15 and Rwy 33—CTAF.

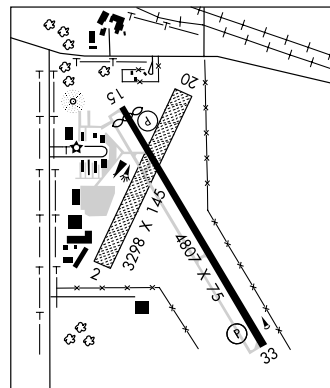
WEATHER DATA SOURCES: AWOS-3 120.925 (515) 432-9042.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ DES MOINES APP/DEP CON 123.9

RADIO AIDS TO NAVIGATION: NOTAM FILE TNU.

NEWTON (L) VOR/DME 112.5 TNU Chan 72 N41°47.03' W93°06.54' 293° 36.7 NM to fld. 980/3E.

NDB (MHW) 407 BNW N42°03.26' W93°51.18' at fld. NOTAM FILE BNW.

**BURLINGTON** N40°43.40' W90°55.55' NOTAM FILE BRL.

CHICAGO

(L) VORTACW 111.4 BRL Chan 51 287° 9.8 NM to Southeast Iowa Rgnl. 730/5E. HIWAS.

H-5D, L-27B

BURLINGTON**SOUTHEAST IOWA RGNL**

(BRL) 2 SW UTC-6(-5DT) N40°46.99' W91°07.53'

698 B S4 FUEL 100LL, JET A ARFF Index—See Remarks NOTAM FILE BRL

RWY 18-36: H6702X150 (ASPH-GRVD) S-65, D-90 HIRL

RWY 18: Thld dspcd 600'. Trees. Rgt tfc.

RWY 36: MALSR. Tree.

RWY 12-30: H5350X100 (CONC-GRVD) S-37, D-58 MIRL

RWY 12: REIL. VASI(V4L)—GA 3.0° TCH 39'. Rgt tfc.

RWY 30: REIL. PAPI(P4L)—GA 3.0° TCH 30'. Thld dspcd 500'.

Road.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 18: TORA-6702 TODA-6702 ASDA-6702 LDA-6102

RWY 36: TORA-6702 TODA-6702 ASDA-6102 LDA-6102

RWY 12: TORA-4850 TODA-5350 ASDA-4850 LDA-5350

RWY 30: TORA-5350 TODA-5350 ASDA-5350 LDA-4850

AIRPORT REMARKS: Attended 1300-0100Z+. Self svc fuel station avbl on north end of apron. Line of sight vision blocked between Rwy 36 and Rwy 12. Class II, ARFF Index A. PPR 24 hrs for unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 319-754-1414. ARFF Index B equipment provided. Air carrier ops with more than 9 passenger seats not authorized in excess of 15 minutes of scheduled flight times without prior coordination with airport manager or dispatch center 319-753-8371. Rwy 36 is calm wind rwy. ACTIVATE MIRL Rwy 12-30, HIRL Rwy 18-36, VASI Rwy 12. PAPI Rwy 30, REIL Rwy 12 and Rwy 30 and MALSR Rwy 36—CTAF.

WEATHER DATA SOURCES: ASOS 118.025 (319) 752-6246. HIWAS 111.4 BRL.**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 122.65 (FORT DODGE RADIO)

Ⓡ CHICAGO CENTER APP/DEP CON 135.6

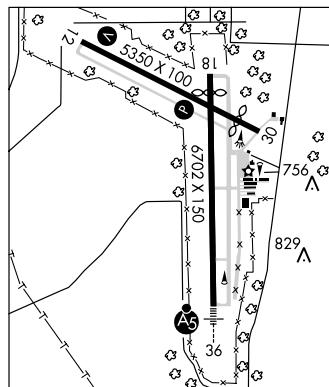
RADIO AIDS TO NAVIGATION: NOTAM FILE BRL.

BURLINGTON (L) VORTACW 111.4 BRL Chan 51 N40°43.40' W90°55.55' 287° 9.8 NM to fld.

730/5E. HIWAS.

BURNS NDB (LOM) 390 BR N40°39.26' W91°07.38' 357° 7.0 NM to fld. Unmonitored.

ILS 108.9 I-BRL Rwy 36 Class IB LOM BURNS NDB. ILS unmonitored.

**BURNS** N40°39.26' W91°07.38' NOTAM FILE BRL.

NDB (LOM) 390 BR 357° 7.0 NM to Southeast Iowa Rgnl. Unmonitored.

CHICAGO

CARROLL N42°02.70' W94°47.11' NOTAM FILE CIN.

NDB (MHW) 397 CIN at Arthur N Neu. Unmonitored.

OMAHA

L-121

CARROLL

ARTHUR N NEU (CIN) 4 SE UTC-6(-5DT) N42°02.77' W94°47.34'

1204 B S4 FUEL 100, JET A NOTAM FILE CIN

RWY 13-31: H5500X100 (CONC) S-30 MIRL

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 23'. Thld dsplcd 505'.
Railroad.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 26'.

RWY 03-21: H3300X60 (CONC) MIRL

RWY 03: PAPI(P2L)—GA 3.0° Road.

RWY 21: PAPI(P2L)—GA 3.0° Road.

AIRPORT REMARKS: Attended 1400Z±-dusk. For svc after hrs call 712-792-4980. Rwy 31 is calm wind rwy. MIRL Rwy 13-31 and Rwy 03-21 preset on low ints, to increase ints, and ACTIVATE REIL Rwy 13 and Rwy 31 and PAPI Rwy 13, Rwy 31, Rwy 03, and Rwy 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.025 (712) 792-2306.

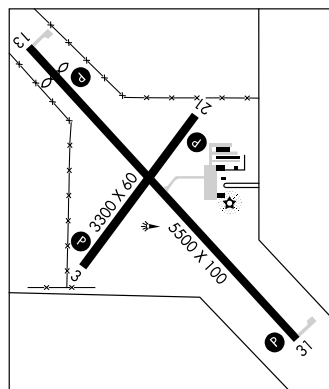
COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 134.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67' W94°17.69' 206° 40.4 NM to fld. 1164/7E. **HIWAS.**

CARROLL NDB (MHW) 397 CIN N42°02.70' W94°47.11' at fld. Unmonitored. NOTAM FILE CIN.



OMAHA
H-5C, L-121
IAP

CEDAR RAPIDS N41°53.25' W91°47.14' NOTAM FILE CID.

(H) VORW/DME 114.1 CID Chan 88 088° 3.4 NM to The Eastern Iowa arpt. 870/5E.

RCO 122.55 (FORT DODGE RADIO)

CHICAGO
H-5D, L-28G

CEDAR RAPIDS**THE EASTERN IOWA**

(CID) 6 SW UTC-6(-5DT) N41°53.08' W91°42.65'
 869 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA-1869(1000)

CHICAGO
 H-5D, L-286
 IAP, AD

ARFF Index—See Remarks NOTAM FILE CID

RWY 09-27: H8600X150 (ASPH-CONC-GRVD) S-100, D-174,
 ST-175, DT-300 HIRL

RWY 09: MALSR. PAPI(P4R)—GA 3.0° TCH 60'.

RWY 27: MALSR. PAPI(P4L)—GA 3.0° TCH 46'. Thld displcd 425'.
 Railroad.

RWY 13-31: H6200X150 (ASPH-CONC-GRVD) S-100, D-174,
 ST-175, DT-300 MIRL 0.4% up NW

RWY 13: REIL. PAPI(P4L)—GA 3.0° TCH 51'.

RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 43'.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 09	13-31	5800

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09:	TORA-8600	TODA-8600	ASDA-8175	LDA-8175
RWY 13:	TORA-6200	TODA-6200	ASDA-6200	LDA-6200
RWY 27:	TORA-8600	TODA-8600	ASDA-8600	LDA-8175
RWY 31:	TORA-6200	TODA-6200	ASDA-6200	LDA-6200

AIRPORT REMARKS: Attended Mon-Sat 1000-0530Z†, Sun

1100-0500Z†. For fuel svc after hrs call 319-366-2246. Birds on and invof arpt. Rwy 09-27 2200' conc west end. When twr clsd and during snow and ice events, all arrival/departure acft announce their intentions on CTAF 5 minutes prior to using the rwys. Personnel and equipment performing snow and ice removal ops will monitor CTAF. Rwy 09 runway visual avbl touchdown. Rwy 27 runway visual range avbl touchdown. Twy A hold sign at Rwy 27 unlighted. Twy D is a non-movement area fm Twy B to the safety center exit. Class I, ARFF Index B. Index C level ARFF avbl upon request with 48 hrs notice. 319-366-2246. Rwy 27 PAPI restricted to 5° right and left of centerline. When twr clsd ACTIVATE VASI Rwy 31, PAPI Rwy 13, Rwy 09 and Rwy 27, MALSR Rwy 31, Rwy 09, and Rwy 27 (0530-1100Z†) and twy lgts—CTAF. Rwy 09-27 edge lgts preset step 2, to increase ints ACTIVATE—CTAF. Rwy 13-31 edge lgts preset step 2, pilot control lighting Rwy 13-31 not avbl.

WEATHER DATA SOURCES: ASOS (319) 363-9021. LAWRS. WSP.

COMMUNICATIONS: CTAF 118.7 ATIS 124.15 UNICOM 122.95

CEDAR RAPIDS RCO 122.55 (FORT DODGE RADIO)

® **APP/DEP CON 119.7 (091°-269°) 134.05 (270°-090°) 119.05 (1100-0530Z†)**

CHICAGO CENTER APP/DEP CON 132.8 (0530-1100Z†)

TOWER 118.7 (1100-0530Z†) GND CON 121.6 CLNC DEL 125.45

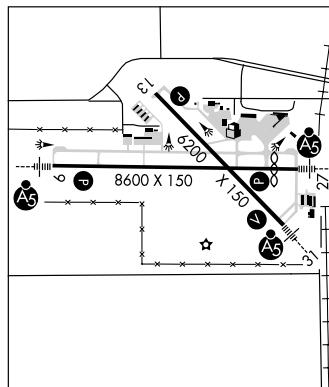
AIRSPACE: CLASS C svc 1100-0530Z† ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE CID.

CEDAR RAPIDS (H) VOR/DME 114.1 CID Chan 88 N41°53.25' W91°47.14' 088° 3.4 NM to fld. 870/5E.

ILS 109.3 I-CID Rwy 09. ILS unmonitored when twr clsd.

ILS/DME 111.3 I-RRU Chan 050 Rwy 27 Class IA. ILS unmonitored when twr clsd.



CENTERVILLE MUNI (TVK) 3 SW UTC-6(-5DT) N40°41.07' W92°54.06'

CHICAGO

1023 B FUEL 100LL, JET A, MOGAS NOTAM FILE FOD
 RWY 16-34: H4099X75 (CONC) S-42, D-65, DT-120 MIRL

L-27A

RWY 16: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

IAP

RWY 34: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended Mon-Fri 1430-2300Z†, Arpt on call holidays. After hrs call Airport Manager on 641-856-4023, residence located on arpt grounds. 24-hr credit card fuel pump. Ultralight activity on and in/ov arpt. ACTIVATE MIRL Rwy 16-34 and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: ASOS 123.775 (641) 437-1213.**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHICAGO CENTER APP/DEP CON 118.15

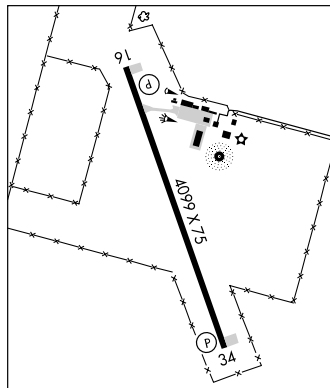
RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

OTTUMWA (L) VORW/DME 111.6 OTM Chan 53 N41°01.75'
 W92°19.56' 226° 33.4 NM to fld. 820/6E.

HIWAS.

NDB (MHW) 290 TVK N40°41.23' W92°54.00' at fld.

NOTAM FILE FOD. Unmonitored. NDB unusable byd 15 NM.

**CHARITON MUNI** (CNC) 3 W UTC-6(-5DT) N41°01.18' W93°21.58'

OMAHA

1050 B FUEL 100LL, JET A NOTAM FILE CNC

L-121, 27A

RWY 10-28: H4000X75 (CONC-WC) MIRL 0.3% up NW

IAP

RWY 10: REIL. VASI(V2L)-GA 3.0° TCH 26'.

RWY 28: REIL. PAPI(P2L)-GA 3.0° TCH 33'.

RWY 17-35: H2800X75 (CONC) S-4 MIRL 0.4% up S

RWY 17: REIL. PAPI(P2L). Trees.

RWY 35: REIL. PAPI(P2L). Road.

AIRPORT REMARKS: Attended on call. For assistance call 641-774-5083. MIRL Rwy 17-35 and Rwy 10-28 preset on low intensity, to increase intensity and ACTIVATE REIL Rwy 17, Rwy 35, Rwy 10 and Rwy 28, PAPI Rwy 17 Rwy 35 and Rwy 28—CTAF.

WEATHER DATA SOURCES: AWOS-3 125.525 (641) 774-5645.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® DES MOINES APP/DEP CON 135.2

RADIO AIDS TO NAVIGATION: NOTAM FILE DSM.

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22' W93°38.92' 145° 28.2 NM to fld. 940/7E.

HIWAS.

NDB (MHW) 335 CNC N41°01.01' W93°21.72' at fld. NOTAM FILE CNC.

CHARLES CITY N43°04.11' W92°36.49' NOTAM FILE CCY.

CHICAGO

NDB (MHW) 375 CCY at Northeast Iowa Rgnl.

L-121, 28F

RCO 122.4 (FORT DODGE RADIO)

CHARLES CITY**NORTHEAST IOWA RGNL** (CCY) 3 E UTC-6(-5DT) N43°04.36' W92°36.65'**CHICAGO**

1125 B S4 FUEL 100LL, JET A NOTAM FILE CCY

L-12J, 28F

RWY 12-30: H4001X75 (CONC) S-30 MIRL

IAP

RWY 12: REIL. VASI(V2L)—GA 3.0° TCH 26'. Tree.

RWY 30: REIL. VASI(V2L)—GA 3.0° TCH 27'. Tree.

RWY 04-22: 2536X160 (TURF)

RWY 04: P-line.

RWY 22: Tree.

RWY 17-35: 1780X170 (TURF)

RWY 17: Road.

RWY 35: Road.

AIRPORT REMARKS: Attended Mon-Sat 1300-2300Z†, Sun 1400-2200Z†. For svc after dusk call

641-228-3075/228-6996. Rwy 04, Rwy 22, Rwy 17 and Rwy 35 thlds and edges marked with yellow cones.

Rwy 12 VASI OTS indef. Rwy 30 VASI OTS indef. Rwy 12 REIL OTS indef. ACTIVATE MIRL Rwy 12-30 and REIL

Rwy 12 and Rwy 30—CTAF.

WEATHER DATA SOURCES: AWOS-3 125.525 (641) 228-7069.**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHARLES CITY RCO 122.4 (FORT DODGE RADIO)

Ⓡ **WATERLOO APP/DEP CON** 118.9 (1200-0200Z†)**CHICAGO CENTER APP/DEP CON** 118.9 (0200-1200Z†)**RADIO AIDS TO NAVIGATION:** NOTAM FILE MCW.**MASON CITY (H) VORTACW** 114.9 MCW Chan 96 N43°05.69' W93°19.79' 086° 31.7 NM to fld. 1210/6E.**CHARLES CITY NDB (MHW)** 375 CCY N43°04.11' W92°36.49' at fld. NOTAM FILE CCY. Unmonitored

2300-1300Z†.

CHUKK NDB (MHW/LOM) 417 IY N43°08.04' W92°43.69' 122° 6.3 NM to fld.

ILS 108.3 I-YYY Rwy 12. LOM CHUKK NDB. LOC only.

CHEROKEE CO RGNL (CKP) 1 S UTC-6(-5DT) N42°43.87' W95°33.37'**OMAHA**

1227 B FUEL 100LL, JET A NOTAM FILE CKP

L-12J

RWY 18-36: H3801X75 (CONC) S-15 MIRL 0.4% up S

IAP

RWY 18: REIL. PAPI(P2L)—GA 3.6° TCH 46'. Trees.

RWY 36: REIL. PAPI(P2R)—GA 3.6° TCH 49'. Pole.

RWY 01-19: 2645X100 (TURF)

RWY 01: Thld dsplcd 408'. Railroad.

RWY 19: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†, Sat 1400-1800Z†. For attendant after hours call

712-225-6168. For fuel after hrs call 712-225-6168 or 712-229-9365. Waterfowl on and invov arpt.

Parachute Jumping. Rwy 01-19 CLOSED Nov-Apr. Rwy 01-19 marked with yellow cones. ACTIVATE MIRL Rwy

18-36, REIL Rwy 18 and Rwy 36 and PAPI Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.225 (712) 225-1088.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MINNEAPOLIS CENTER APP/DEP CON** 124.1**RADIO AIDS TO NAVIGATION:** NOTAM FILE SPW.**SPENCER (L) VORW/DME** 110.0 SPW Chan 37 N43°09.73' W95°12.06' 206° 30.2 NM to fld. 1330/5E.**PILOT ROCK NDB (MHW)** 423 CKP N42°43.91' W95°33.19' at fld. NOTAM FILE FOD.**CHUKK** N43°08.04' W92°43.69' NOTAM FILE FOD.**CHICAGO****NDB (MHW/LOM)** 417 IY 122° 6.3 NM to NORTHEAST IOWA RGNL.

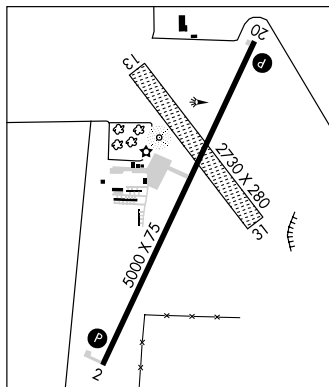
L-28J, 28F

CLARINDA N40°43.60' W95°01.65' NOTAM FILE ICL.**OMAHA****NDB (MHW)** 353 ICL at Schenck Fld.

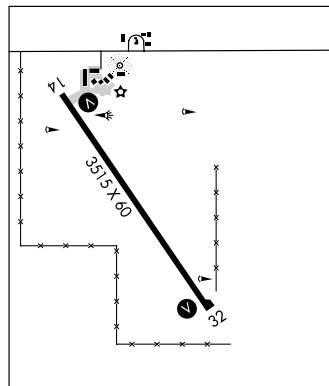
L-10J

CLARINDA**SCHENCK FLD** (ICL) 1 SE UTC-6(-5DT) N40°43.33' W95°01.60'

996 B FUEL 100LL, JET A NOTAM FILE ICL

RWY 02-20: H5000X75 (CONC) S-12 MIRL**RWY 02:** REIL. PAPI(P4L)—GA 3.0° TCH 21'. Road.**RWY 20:** REIL. PAPI(P4L)—GA 3.0° TCH 20'. Building.**RWY 13-31:** 2730X280 (TURF)**RWY 13:** Trees. **RWY 31:** Trees.**AIRPORT REMARKS:** Attended 1400-2300Z. Rwy 13-31 marked with yellow cones. ACTIVATE MIRL Rwy 02-20; REIL Rwy 02 and Rwy 20; PAPI Rwy 02 and Rwy 20—CTAF.**WEATHER DATA SOURCES:** AWOS-3 132.025 (712) 542-3345.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MINNEAPOLIS CENTER APP/DEP CON** 119.6**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.**OMAHA (H) VORTAC** 116.3 OVR Chan 110 N41°10.04' W95°44.20' 121° 41.9 NM to fld. 1300/8E. **HIWAS.****CLARINDA NDB (MHW)** 353 ICL N40°43.42' W95°01.68' at fld. NOTAM FILE ICL.**OMAHA**
H-5C, L-10J
IAP**CLARION MUNI** (CAV) 1 NW UTC-6(-5DT) N42°44.52' W93°45.53'

1162 B FUEL 100LL, JET A NOTAM FILE CAV

RWY 14-32: H3515X60 (CONC) S-17 MIRL**RWY 14:** REIL. VASI(V4L). Road. **RWY 32:** REIL. VASI(V4L). Tree.**AIRPORT REMARKS:** Unattended. Rwy 14-32 MIRL preset to low ints, ACTIVATE VASI and REIL Rwy 14 and Rwy 32 and MIRL Rwy 14-32 higher ints—CTAF.**WEATHER DATA SOURCES:** AWOS-3 126.575 (515) 532-3515.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MINNEAPOLIS CENTER APP/DEP CON** 134.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.**FORT DODGE (H) VORTACW** 113.5 FOD Chan 82 N42°36.67' W94°17.69' 065° 25.0 NM to fld. 1164/7E. **HIWAS.****NDB (MHW)** 387 CAV N42°44.75' W93°45.53' at fld. NOTAM FILE CAV. Unmonitored.**OMAHA**
L-12J
IAP

CLINTON MUNI (CWI) 6 SW UTC-6(-5DT) N41°49.87' W90°19.75'

CHICAGO

708 B FUEL 100LL, JET A NOTAM FILE CWI

H-5D, L-28G

RWY 03-21: H5204X100 (ASPH) S-37, D-48 HIRL 0.3% up NE

IAP, AD

RWY 03: MALSR. Road.

RWY 21: REIL. VASI(V4L)—GA 3.0° TCH 34'.

RWY 14-32: H3700X100 (ASPH) S-36, D-44 MIRL
0.3% up NWRWY 14: REIL. VASI(V4L)—GA 3.0° TCH 33'. Thld displcd 170'.
Road.

RWY 32: VASI(V4L)—GA 3.3° TCH 26'. Fence.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03: TORA-5204 TODA-5204 ASDA-5204 LDA-5204

RWY 21: TORA-5204 TODA-5204 ASDA-5204 LDA-5204

RWY 14: TORA-3700 TODA-3700 ASDA-3700 LDA-3530

RWY 32: TORA-3700 TODA-3700 ASDA-3700 LDA-3700

AIRPORT REMARKS: Attended May-Sep Mon-Fri 1400-0100Z, Sat-Sun 1400-2300Z, Oct-Apr Mon-Fri 1400-2300Z, Sat-Sun 1400-2200Z. CAUTION: ultralight activity on and invov arpt. Rwy 03 is calm wind rwy. Rwy 21 REIL OTS indef. ACTIVATE HIRL Rwys 03-21, MIRL 14-32, MALSR Rwy 03, VASI Rwys 14, 21 and 32 and REIL Rwys 14 and 21-118.5.

WEATHER DATA SOURCES: AWOS-3 125.525 (563)243-8934.**COMMUNICATIONS:** CTAF/UNICOM 122.8

① QUAD CITY APP/DEP CON 125.95 (1130-0430Z)

QUAD CITY CLNC DEL 118.5

① CHICAGO CENTER APP/DEP CON 118.75 (0430-1130Z)

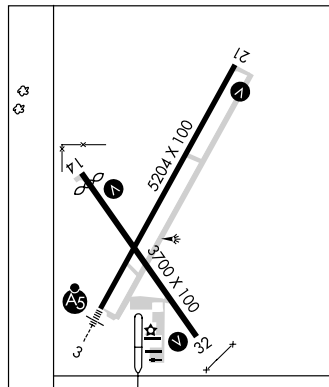
AIRSPACE: CLASS E svc Mon-Fri 1300-0200Z other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.

DAVENPORT (L) VORTACW 113.8 CVA Chan 85 N41°42.51' W90°29.00' 039° 10.1 NM to fld. 760/4E.

HIWAS.

HILLZ NDB (LOM) 517 FN N41°45.10' W90°23.43' 030° 5.5 NM to fld.

ILS/DME 109.7 I-FNO Chan 34 Rwy 03. Class IE. LOM HILLZ NDB. Unmonitored.

**CORNING MUNI** (CRZ) 1 W UTC-6(-5DT) N40°59.65' W94°45.30'

OMAHA

1274 B FUEL 100LL, MOGAS NOTAM FILE FOD

L-10J, 12I

RWY 18-36: H2684X50 (CONC) LIRL (NSTD) 1.0% up N

IAP

RWY 18: REIL. Tree. Rgt tfc.

AIRPORT REMARKS: Unattended. For svc call 641-322-4444/3385.

Sharp drop both ends Rwy 18 and Rwy 36. Rwy 18-36 NSTD LIRL, edge lgts 58' fm centerline. ACTIVATE NSTD LIRL Rwy 18-36 and REIL Rwy 18-122.8.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON-119.6

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

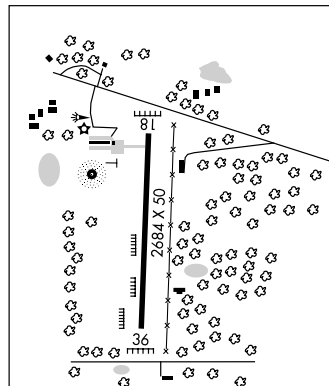
LAMONI (H) VORTAC 116.7 LMN Chan 114 N40°35.81'

W93°58.06' 297° 43.1 NM to fld. 1140/7E.

HIWAS.

NDB (MHW) 278 CRZ N40°59.78' W94°45.42' at fld.

Unmonitored.



CORYDON (ØE9) 4 E UTC-6(-5DT) N40°45.27' W93°14.48'

OMAHA

1020 FUEL MOGAS NOTAM FILE FOD

RWY 09-27: 3270X80 (TURF)

RWY 09: Thld dsplcd 1080'. Tree. RWY 27: Road.

AIRPORT REMARKS: Attended SR-SS. Rwy 09-27 ends and dsplcd thld marked with yellow cones, two outboard cones each side of rwy mark dsplcd thld. Rwy 09 has tall grass and weeds hiding dsplcd thld marker cones.

COMMUNICATIONS: CTAF/UNICOM 122.8

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WATERWAY 11-29: 3000X100 (WATER)

COUNCIL BLUFFS MUNI (CBF) 4 E UTC-6(-5DT) N41°15.61' W95°45.52'

OMAHA

1253 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE CBF

H-5C, L-101, 121

RWY 18-36: H5500X100 (CONC) S-30, D-60 HIRL

IAP

RWY 18: REIL. PAPI(P2L)—GA 3.0 TCH 45'.

RWY 36: REIL.

RWY 14-32: H3650X60 (CONC) S-28, D-48 MIRL 0.3% up SE

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Trees.

RWY 32: REIL. PAPI(P2L)—GA 3.5° TCH 30'.

AIRPORT REMARKS: Attended dawn-dusk. Propeller repairs avbl. Twy A clsd north of A2 intersection and south of A3 intersection. Rwy 14 preferred calm wind rwy. ACTIVATE MIRL Rwy 14-32 HIRL Rwy 18-36, PAPI Rwy 14 and Rwy 32 and Rwy 18, REIL Rwy 14, Rwy 32, Rwy 18 and Rwy 36—CTAF.

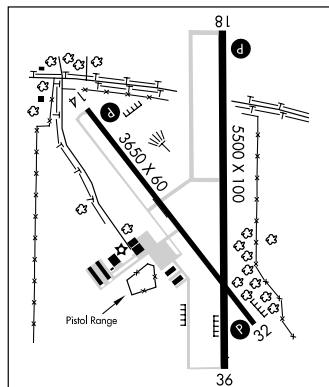
WEATHER DATA SOURCES: AWOS-3 126.575 (712) 323-1542.

COMMUNICATIONS: CTAF/UNICOM 122.8

® OMAHA APP/DEP CON 124.5

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

OMAHA (H) VORTAC 116.3 OVR Chan 110 N41°10.04'
W95°44.20' 342° 5.7 NM to fld. 1300/8E. HIWAS.

**CRESCO****ELLEN CHURCH FLD** (CJJ) 1 SW UTC-6(-5DT) N43°21.92' W92°07.98'

CHICAGO

1279 NOTAM FILE FOD

L-28F

RWY 15-33: H2949X50 (CONC) S-29 LIRL 0.5% up NW

IAP

RWY 15: VASI(V2L). Trees. RWY 33: VASI(V2L). Pole.

AIRPORT REMARKS: Unattended. Be alert for ultralight activity on and in/ovf arpt. ACTIVATE LIRL Rwy 15-33 and VASI Rwy 15 and 33—122.7.

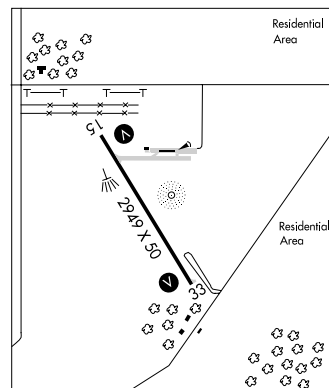
COMMUNICATIONS: CTAF/UNICOM 122.8 CTAF/UNICOM OTS indef.

MINNEAPOLIS CENTER APP/DEP CON 118.85

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

WAUKON (L) VORTAC 116.6 UKN Chan 113 N43°16.81'
W91°32.24' 276° 26.6 NM to fld. 1288/5E.

CRESCO NDB (MHW) 293 CJJ N43°21.96' W92°07.86' at
fld. Unmonitored.

**CRESCO** N43°21.96' W92°07.86' NOTAM FILE FOD.

CHICAGO

NDB (MHW) 293 CJJ at Ellen Church Fld. Unmonitored.

L-28F

CRESTON MUNI (CSQ) 3 S UTC-6(-5DT) N41°01.29' W94°21.80'

OMAHA

1300 B S2 FUEL 100LL, JET A NOTAM FILE CSQ

L-10J, 121

RWY 16-34: H4901X75 (ASPH) S-15 MIRL

IAP

RWY 16: REIL. VASI(V2L)—GA 3.0° TCH 46'. Fence.

RWY 34: REIL. VASI(V2L)—GA 3.0° TCH 46'. Tree.

RWY 04-22: 1692X100 (TURF)

RWY 22: Road.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z±. Sat and Sun on call. For fuel after hrs and weekends call 641-782-8402 (Law Enforcement Center). Rwy 04-22 CLOSED during winter months. Rwy 04-22 marked with yellow cones. MIRL Rwy 16-34 preset low ints, ACTIVATE higher ints and VASI and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 124.75 (641) 782-6286.**COMMUNICATIONS:** CTAF/UNICOM 122.8

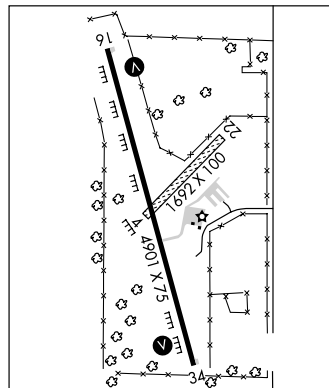
MINNEAPOLIS CENTER APP/DEP CON 125.65

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

LAMONI (H) VORTAC 116.7 LMN Chan 114 N40°35.81'

W93°58.06' 318° 31.2 NM to fld. 1140/7E. HIWAS.

UNION CO NDB (MHW) 379 UNE N40°57.45' W94°20.84' 345°
3.9 NM to fld. NOTAM FILE CSQ.

**DALE DELIGHT** (See POSTVILLE)**DAVENPORT MUNI** (DVN) 5 N UTC-6(-5DT) N41°36.62' W90°35.30'

CHICAGO

753 B S4 FUEL 100LL, JET A NOTAM FILE DVN

H-50, L-286

RWY 15-33: H5501X100 (CONC) S-68, D-93, ST-118, DT-122 MIRL

IAP

RWY 15: MALSR. VASI(V4L)—GA 3.0° TCH 39'. Road.

RWY 33: REIL. VASI(V4L)—GA 3.0° TCH 48'.

RWY 03-21: H4001X100 (CONC) S-68, D-93, ST-118, DT-122 MIRL (NSTD)

RWY 03: VASI(V4L)—GA 3.0° TCH 44'.

RWY 21: VASI(V4L)—GA 3.0° TCH 44'. Road.

AIRPORT REMARKS: Attended 1230Z±-dusk. For svc after hrs call 563-391-5650. Ultralight activity prohibited. Extensive heavy military helicopter (Chinook) training on and in/ov arpt, possible extreme turbulence from rotors. Helicopter ops on CTAF operating parallel to rwys from grass areas. Two way radio communications required for all acft conducting multiple ops. Rwy 15 designated calm wind rwy. Rwy 03-21 NSTD MIRL, thlds have only 6 lgts; clear lenses entire rwy length. ACTIVATE MIRL Rwy 03-21, Rwy 15-33; VASI Rwy 15; Rwy 33, MALSR Rwy 15 and REIL Rwy 33—CTAF.

WEATHER DATA SOURCES: ASOS 120.175 (563) 388-2154.

HIWAS 113.8 CVA.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.5 (FORT DODGE RADIO)

Ⓡ QUAD CITY APP/DEP CON 125.95 (1130-0430Z±)

Ⓡ CHICAGO CENTER APP/DEP CON 118.75 (0430-1130Z±)

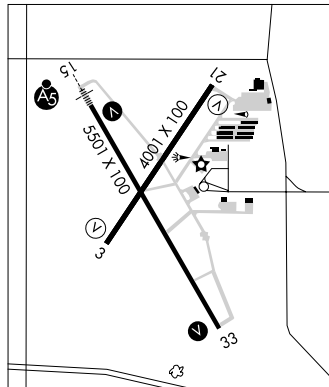
QUAD CITY CLNC DEL 118.35

AIRSPACE: CLASS E svc 1100-0500Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.

(L) VORTACW 113.8 CVA Chan 85 N41°42.51' W90°29.00' 215° 7.6 NM to fld. 760/4E. HIWAS.

AUNEY NDB (LOM) 353 DV N41°41.69' W90°39.35' 148° 5.9 NM to fld. Unmonitored.

ILS/DME 109.1 I-DVN Chan 28 Rwy 15. LOM AUNEY NDB. ILS unmonitored.



DECORAH MUNI (DEH) 2 SE UTC-6(-5DT) N43°16.53' W91°44.36'

CHICAGO

1158 B S4 FUEL 100LL, JET A NOTAM FILE DEH

L-28F

RWY 11-29: H4001X75 (CONC) S-28 MIRL 0.3% up SE

IAP

RWY 11: REIL. PAPI(P2L)

RWY 29: REIL. VASI(V4L)—GA 3.5° TCH 47'. Trees.

AIRPORT REMARKS: Attended continuously. Parachute Jumping. MIRL

Rwy 11-29 preset on low ints, to increase ints and ACTIVATE VASI

Rwy 29 and PAPI Rwy 11 and REIL Rwy 11 and Rwy 29—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.925 (563) 382-2990.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 118.85

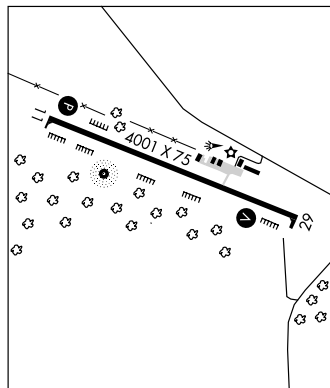
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

WAUKON (L) VORTAC 116.6 UKN Chan 113 N43°16.81'

W91°32.24' 263° 8.9 NM to fld. 1288/5E.

NDB (MHW) 236 DEH N43°16.51' W91°44.61' at fld.

NOTAM FILE DEH. Unmonitored.



DENISON MUNI (DNS) 2 SW UTC-6(-5DT) N41°59.20' W95°22.83'

OMAHA

1274 B FUEL 100LL, JET A NOTAM FILE DNS

H-5C, L-12I

RWY 12-30: H5000X75 (CONC) S-28, D-48 MIRL 0.3% up NW

IAP

RWY 12: REIL. PAPI(P2L)—GA 3.0° TCH 27'.

RWY 30: REIL. PAPI(P2L)—GA 3.0° TCH 33'. Tree.

RWY 18-36: 2019X105 (TURF)

RWY 06-24: 1790X178 (TURF)

RWY 06: Tree.

RWY 24: Tree.

AIRPORT REMARKS: Attended 1400-2300Z after 2300Z, call 712-677-2730. For fuel svc and arpt information call arpt manager 712-263-6424 or fax 712-263-8349. Rwy 18-36 and Rwy 06-24 CLOSED Nov-Apr. Rwy 30 is calm wind rwy. Rwy 06, Rwy 24, Rwy 18 and Rwy 36 thlds and sides marked with yellow cones. Rwy lgt for Rwy 12-30 located 25' inside boundary of Rwy 06-24. MIRL Rwy 12-30 preset low ints, to increase ints and ACTIVATE PAPI Rwy 12 and Rwy 30 and REIL Rwy 12 and Rwy 30—CTAF. Rwy 12-30 has soft shoulders.

WEATHER DATA SOURCES: AWOS-3 119.95 (712) 263-6558.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.25 (FORT DODGE RADIO)

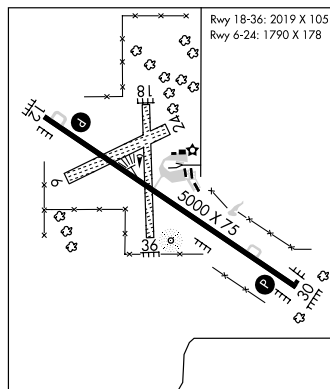
MINNEAPOLIS CENTER APP/DEP CON 119.6

RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.

SIoux CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67' W96°19.42' 108° 47.2 NM to fld. 1087/9E.

HIWAS.

NDB (MHW) 350 DNS N41°59.03' W95°22.76' at fld. NOTAM FILE DNS. Unmonitored.



DES MOINES**DES MOINES INTL** (DSM) 3 SW UTC-6(-5DT) N41°32.04' W93°39.79'958 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index C
NOTAM FILE DSM**OMAHA**
H-5C, L-12J
IAP, AD**RWY 05-23:** H9003X150 (ASPH-CONC) S-133, D-180, ST-175,
DT-340 HIRL**RWY 05:** PAPI(P4L)—GA 3.0° TCH 56'. 0.4% up.**RWY 23:** REIL. PAPI(P4L)—GA 3.0° TCH 56'. Pole.**RWY 13-31:** H9001X150 (ASPH-GRVD) S-133, D-180, ST-175,
DT-340 HIRL CL**RWY 13:** MALSR. VASI(V4L)—GA 3.0° TCH 56'.**RWY 31:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 56'. Rgt tfc.
0.8% down.**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 05	13-31	6350
RWY 13	05-23	5950

ARRESTING GEAR/SYSTEM**RWY 05** ←TYPE-H BAK-12B(B) (1475')TYPE-H BAK-12B(B) (1353') →**RWY 23****RWY 13** ←BAK-14 BAK-12B(B) (1371')BAK-14 BAK-12B(B) (1320') →**RWY 31**

AIRPORT REMARKS: Attended continuously. PAEW adjacent all surfaces
Apr-Oct 1330-2230Z† Mon-Fri; mowing ops. Birds on and invof
arpt. Arpt director requires 24 hrs notice on transportation of
explosives by civil acft. Use of Air National Guard ramp is official business/PPR call Defense Switch Network
946-8250, normal Air National Guard ops are Tue-Sat 1300-2330Z† except holidays. TWR has limited
visibility on Twy D between Twy D-5, Twy D-6, Twy P-7 and AER 05. Terminal ramp taxiway between Twy C
and Twy D restricted to B757 and smaller acft. FBO ramps weight restricted to 60,000 pounds. Rwy 05
touchdown rwy visual range avbl. Rwy 13 and Rwy 31 touchdown, midpoint and rollout rwy visual range avbl.
Contract fuel not avbl, government contractors may accept government credit card. Informal noise abatement
procedures in effect. Expect ATC to assign preferred rwy. Flight Notification Service (ADCUS) avbl, Mon-Fri
1430-2300Z†. For Sat, Sun Holidays and ngt customs svc, make appointments Mon-Fri 1430-2300Z†. At
least 3 hr advance notice required.

WEATHER DATA SOURCES: ASOS (515) 287-1012. HIWAS 117.5 DSM. WSP.**COMMUNICATIONS:** ATIS 119.55 (515) 974-8046 UNICOM 122.95

RCO 122.65 (FORT DODGE RADIO)

Ⓡ **APP/DEP CON:** 123.9 (306°-127° Rwy 13-31) (049°-231° Rwy 05-23) 135.2 (127°-306° Rwy 13-31) (231°-049°
Rwy 05-23) 118.6 Utilized as APCH secondary freq, all sectors.

TOWER 118.3 **GND CON** 121.9 **CLNC DEL** 134.15**AIRSPACE:** CLASS C svc ctc **APP CON.****RADIO AIDS TO NAVIGATION:** NOTAM FILE DSM.(H) **VORTACW** 117.5 DSM Chan 122 N41°26.22' W93°38.92' 347° 5.9 NM to fld. 940/7E. **HIWAS.****FOREM NDB (LOM)** 344 DS N41°28.93' W93°34.85' 307° 4.8 NM to fld.**ILS** 110.3 I-DSM Chan 40 Rwy 31 Class IIIE. LOM **FOREM NDB.****ILS** 111.9 I-VGU Rwy 13 Class IB. LOC unusable beyond 11° left of course and beyond 10°-35° right
of course.**ILS/DME** 111.5 I-DWW Chan 52 Rwy 05. Class IA.**COMM/NAV/WEATHER REMARKS:** Contact Gnd Control on 121.9 prior to pushback on the terminal apron.**MORNINGSTAR FLD** (Y76) 3 N UTC-6(-5DT) N41°39.33' W93°38.65'**OMAHA**

805 NOTAM FILE FOD

RWY 17-35: 2065X180 (TURF) LIRL**RWY 17:** Pole. **RWY 35:** Tree.**AIRPORT REMARKS:** Unattended. Waterfowl on and invof arpt. Rwy 17-35 rwy ends and edges marked with yellow
cones. **ACTIVATE LIRL** Rwy 17-35—CTAF.**COMMUNICATIONS:** CTAF 122.9**DRAKE** (See RADCLIFFE)

DUBUQUE RGNL (DBQ) 7 SW UTC-6(-5DT) N42°24.12' W90°42.57'

CHICAGO

1077 B S4 FUEL 100LL, JET A1+ OX 3 ARFF Index—See Remarks NOTAM FILE DBQ

H-5D, L-286

RWY 13-31: H6502X100 (CONC-GRVD) S-75, D-125, ST-159, DT-215 HIRL

IAP, AD

RWY 13: MALS. VASI(V4R)—GA 3.0° TCH 35'. Tower.

RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 57'. Pole.

RWY 18-36: H6327X150 (CONC) S-75, D-173, ST-175, DT-275
HIRL 0.6% up N

RWY 18: PAPI(P4L)—GA 3.0° TCH 34'.

RWY 36: MALSR. PAPI(P4L)—GA 3.30° TCH 51'.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 31	18-36	4800
RWY 36	13-31	4900

RUNWAY DECLARED DISTANCE INFORMATION

RWY 13: TORA-6502 TODA-6502 ASDA-6502 LDA-6502

RWY 31: TORA-6502 TODA-6502 ASDA-6302 LDA-6302

AIRPORT REMARKS: Attended continuously. Fuel svc avbl 24 hrs. For fuel 0400-1100Z† call 563-589-4136. 100LL self service fuel station avbl at T-hangars. Waterfowl on and in/ov arpt. Class I, ARFF Index A. PPR for unscheduled air carrier ops call arpt manager 563-589-4136. ARFF Index B level equipment is provided. Rwy 36 touchdown rwy visual range avbl. When twr clsd ACTIVATE HIRL Rwy 13-31 and Rwy 18-36, MALS Rwy 13, MALSR Rwy 31 and Rwy 36. VASI Rwy 13 and PAPI Rwy 18, Rwy 31 and Rwy 36—CTAF.

WEATHER DATA SOURCES: ASOS (563) 557-2579. LAWRS.**COMMUNICATIONS:** CTAF 119.5 ATIS 127.25 UNICOM 122.95

RCO 122.05 (FORT DODGE RADIO)

Ⓡ CHICAGO CENTER APP/DEP CON 133.95

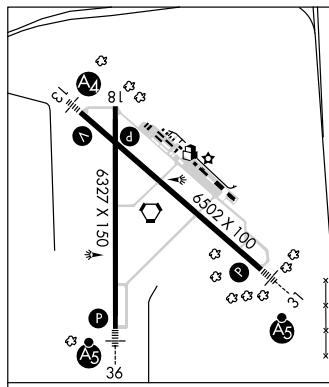
TOWER 119.5 (1200-0200Z†) GND CON 121.8

AIRSPACE: CLASS D svc 1200-0200Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DBQ.(H) VORTACW 115.8 DBQ Chan 105 N42°24.09' W90°42.54' at fld. 1051/4E.
DME unusable 180°-220°

ZILOM NDB (LOM) 341 DB N42°19.38' W90°35.94' 309° 6.9 NM to fld.

ILS 108.7 I-DBQ Rwy 31 LOM ZILOM NDB. LOC only. Unmonitored.

ILS/DME 110.9 I-FUQ Chan 46 Rwy 36. Class IE.

COMM/NAV/WEATHER REMARKS: Emergency frequency 121.5 not avbl at twr.**EAGLE GROVE MUNI** (EAG) 3 N UTC-6(-5DT) N42°42.59' W93°54.97'

OMAHA

1133 B FUEL 100LL NOTAM FILE FOD

L-12J

RWY 13-31: H3500X60 (CONC) MIRL

IAP

RWY 13: REIL. Thld dspld 129'. Road.

RWY 31: REIL. P-line.

RWY 01-19: 2360X115 (TURF)

RWY 01: Fence. RWY 19: Brush.

AIRPORT REMARKS: Unattended. Rwy 01-19 CLOSED Nov-Apr. Rwy

01-19 marked with yellow cones. Rwy 13 REIL OTS indef.

ACTIVATE MIRL Rwy 13-31 and REIL Rwy 13 and Rwy 31—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 134.0

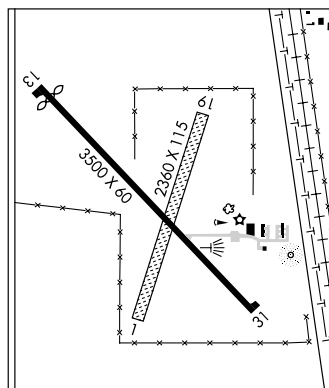
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 063° 17.8 NM to fld. 1150/7E. HIWAS.

NDB (MHW) 302 EAG N42°42.52' W93°54.64' at fld.

Unmonitored.



ELDORA MUNI (6CØ) 2 SW UTC-6(-5DT) N42°19.84' W93°06.84'

OMAHA

979 NOTAM FILE FOD

RWY 18-36: 2750X100 (TURF)

RWY 18: Tree. **RWY 36:** Pole.

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Apr. Ultralight activity prohibited. Rwy 18 and Rwy 36 edges marked by yellow cones.

COMMUNICATIONS: CTAF 122.9

ELKADER (I27) 1 SE UTC-6(-5DT) N42°50.84' W91°22.93'

CHICAGO

932 S4 NOTAM FILE FOD.

RWY 17-35: 1705X75 (TURF)

RWY 17: Tree. **RWY 35:** Trees.

AIRPORT REMARKS: Attended irregularly. During winter months call ahead for conditions 563-245-2899. Rwy 17-35 marked with yellow cones.

COMMUNICATIONS: CTAF/UNICOM 122.9

ELLEN CHURCH FLD (See CRESC0)

ELMWOOD N42°06.68' W92°54.53' NOTAM FILE MIW.

CHICAGO

(L) VORW/DME 109.4 JWW Chan 31 at Marshalltown Muni. 981/3E.

VOR portion unusable 251°-009°.

L-121

EMMETSBURG MUNI (EGQ) 1 SW UTC-6(-5DT) N43°06.12' W94°42.28'

OMAHA

1205 B S2 FUEL 100LL, MOGAS NOTAM FILE FOD

RWY 13-31: H3401X60 (CONC) S-29 MIRL

RWY 13: SAVASI(S2L)—GA 3.0° TCH 21'. Trees.

RWY 31: SAVASI(S2R)—GA 3.5° TCH 21'. Tree.

RWY 04-22: 2545X120 (TURF)

RWY 04: Road. **RWY 22:** Road.

RWY 17-35: 2177X150 (TURF)

RWY 17: Trees. **RWY 35:** Road.

AIRPORT REMARKS: Attended irregularly. MOGAS fuel unavailable indef.

Rwy 04, Rwy 22, Rwy 17 and Rwy 35 thlds and sides marked with yellow cones. Rwy 13 VASI OTS indef. Rwy 31 VASI OTS indef.

ACTIVATE MIRL Rwy 13-31 and SAVASI Rwy 13 and Rwy

31—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 127.75

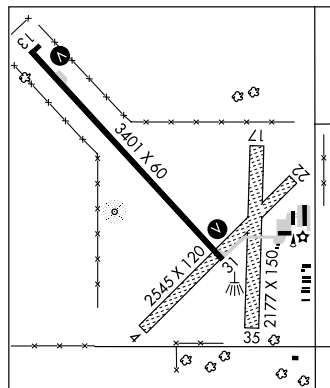
RADIO AIDS TO NAVIGATION: NOTAM FILE SPW.

SPENCER (L) VORW/DME 110.0 SPW Chan 37 N43°09.73'

W95°12.06' 094° 22.1 NM to fld. 1330/5E.

NDB (MHW) 410 EGQ N43°06.07' W94°42.43' at fld.

NOTAM FILE FOD.



ESTHERVILLE MUNI (EST) 4 E UTC-6(-5DT) N43°24.45' W94°44.79'

OMAHA

1319 B S4 FUEL 100LL NOTAM FILE EST

L-121

RWY 16-34: H4797X75 (CONC) S-11 MIRL

IAP

RWY 16: REIL. PAPI(P4L)—GA 3.0° TCH 30'.

RWY 34: REIL.

PAPI(P4L)—GA 3.0° TCH 42'. Highway.

RWY 06-24: 2985X90 (TURF)

RWY 24: Road.

AIRPORT REMARKS: Attended dawn-dusk. For svc after hrs call

712-362-2761. Rwy 34 is calm wind rwy. Rwy 06-24 marked with yellow cones. Rwy 16 REIL are omnidirectional. ACTIVATE MIRL Rwy 16-34, REIL Rwy 16 and Rwy 34 and PAPI Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: ASOS 121.425 (712) 362-7250.**COMMUNICATIONS:** CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 127.75

RADIO AIDS TO NAVIGATION: NOTAM FILE FRM.

FAIRMONT (L) VOR/DME 110.2 FRM Chan 39 N43°38.76'

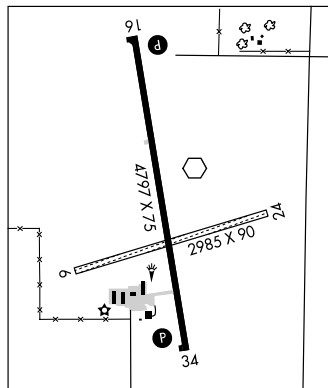
W94°25.35' 218° 20.1 NM to fld. 1164/7E.

(T) VORW 110.4 EST N43°24.56' W94°44.67' at fld.

NOTAM FILE EST. Unmonitored 2300-1400Z±.

PUFF NDB (MHW) 345 PUF N43°21.09'W 94°44.27' 350° 3.4

NM to fld. NOTAM FILE EST. Unusable 330°-120° byd 15NM.

**FAIRFIELD MUNI** (FFL) 3 NW UTC-6(-5DT) N41°03.35' W91°58.85'

CHICAGO

799 B S4 FUEL 100LL, JET A TPA-1800(1001) NOTAM FILE FFL

H-5D, L-27B

RWY 18-36: H5500X100 (CONC) S-30, D-45 MIRL

IAP

RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Road.

RWY 36: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Road.

RWY 08-26: 2450X165 (TURF)

RWY 08: Fence.

RWY 26: Fence.

AIRPORT REMARKS: Attended Mon-Fri 1330-0100Z±, Sat-Sun

1400-2300Z±. Arpt unattended Christmas Day, Easter Sunday and Thanksgiving. Rwy 08-26 CLOSED Nov-Mar. Parachute Jumping. Birds on and in/ovf arpt. Rwy 36 is calm wind rwy. Rwy 08 and Rwy 26 thlds and edges marked with yellow cones. Thld cones have red/green reflector tape and edge cones have white. MIRL Rwy 18-36 preset on low ints, to increase ints and ACTIVATE REIL Rwy 18 and Rwy 36 and PAPI Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 132.025 (641) 472-4548.**COMMUNICATIONS:** CTAF/UNICOM 122.7

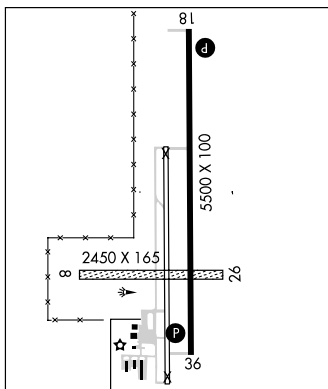
® CHICAGO CENTER APP/DEP CON 118.15

RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

OTTUMWA (L) VORW/DME 111.6 OTM Chan 53 N41°01.75'

W92°19.56' 078° 15.7 NM to fld. 820/6E. HIWAS.

NDB (MHW) 332 FFL N41°00.67' W91°59.31' 007° 2.7 NM to fld. NOTAM FILE FFL.

**FOREM** N41°28.93' W93°34.85' NOTAM FILE DSM.

OMAHA

NDB (LOM) 344 DS 307° 4.8 NM to Des Moines Intl.

FOREST CITY MUNI (FXV) 2 S UTC-6(-5DT) N43°14.09' W93°37.45'

OMAHA

1229 B S4 FUEL 100LL NOTAM FILE FOD

H-5C, L-121

RWY 15-33: H5796X100 (ASPH) S-30 MIRL

IAP

RWY 15: REIL. VASI(V4L)—GA 3.0° TCH 26'. Road.

RWY 33: REIL. VASI(V4L)—GA 3.0° TCH 25'. Fence.

RWY 09-27: H2708X60 (ASPH) S-12.5 MIRL 1.0% up W

RWY 09: Tree.

RWY 27: Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2330Z†. For svc after hrs and weekends call 641-585-2166. ACTIVATE MIRL Rwy 09-27 and Rwy 15-33, VASI Rwy 15 and Rwy 33 and REIL Rwy 15 and Rwy 33—CTAF.

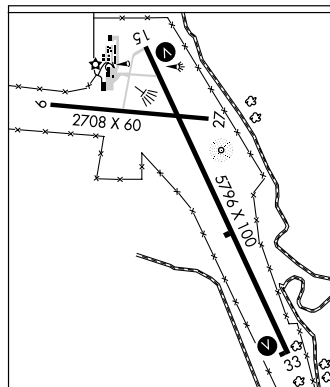
WEATHER DATA SOURCES: AWOS-3 123.925 (641) 581-2347.**COMMUNICATIONS:** CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 127.3

RADIO AIDS TO NAVIGATION: NOTAM FILE MCW.

MASON CITY (H) VORTACW 114.9 MCW Chan 96 N43°05.69' W93°19.79' 297° 15.4 NM to fld. 1210/6E.

NDB(MHW) 359 FXV N43°14.15' W93°37.25' at fld. NOTAM FILE FOD.

**FORT DODGE RGNL** (FOD) 3 N UTC-6(-5DT) N42°33.07' W94°11.51'

OMAHA

1156 B S4 FUEL 100LL, JET A TPA-1999(843) Class I, ARFF Index A NOTAM FILE FOD

H-5C, L-121

RWY 06-24: H6547X150 (ASPH) S-65, D-110, ST-140, DT-165 HIRL 1.2% up NE

IAP, AD

RWY 06: MALSR. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 24: REIL. VASI(V4L)—GA 3.0° TCH 50'.

RWY 12-30: H5301X100 (ASPH) S-36, D-58 MIRL 0.6% up SE

RWY 12: REIL. VASI(V4L)—GA 3.0° TCH 51'.

RWY 30: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Pole.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-6547 TODA-6547 ASDA-6547 LDA-6547

RWY 12: TORA-5301 TODA-5301 ASDA-5301 LDA-5301

RWY 24: TORA-6547 TODA-6547 ASDA-6547 LDA-6547

RWY 30: TORA-5301 TODA-5301 ASDA-5301 LDA-5301

AIRPORT REMARKS: Attended 1300-0200Z†. For attendant after hrs, call 515-955-3434/332-4955. When departing Rwy 06-24 and Rwy 13-30 ends of other rwys not visible. All departure/arrival acft use CTAF. Be alert: when dep Rwy 06-24 or Rwy 12-30, the apch ends of the other rwys are not visible due to surrounding terrain. Be sure to announce positions and intentions on - CTAF. Migratory waterfowl on and invof arpt. Air carrier ops involving acft with more than 9 passenger seats are not authorized in excess of 15 mins before or after scheduled arrival or departure times

without prior coordination with arpt management and/or arpt maintenance and confirmation that ARFF svcs are avbl prior to ldg or tkf. PPR 24 hrs for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 515-573-3881. Rwy 06 is calm wind rwy. ACTIVATE HIRL Rwy 06-24, MIRL Rwy 12-30, REIL Rwy 12, Rwy 24 and Rwy 30, MALSR Rwy 06 and VASI Rwy 12 and Rwy 24 and PAPI Rwy 06 and Rwy 30—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.775 (515) 955-5490. HIWAS 113.5 FOD.**COMMUNICATIONS:** CTAF/UNICOM 122.95

RCO 122.3 122.2 (FORT DODGE RADIO)

MINNEAPOLIS CENTER APP/DEP CON 134.0

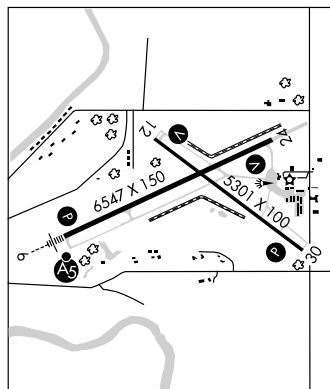
AIRSPACE: CLASS E svc Mon-Sat 1100-0100Z†, Sun 1800-0100Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.

(H) VORTACW 113.5 FOD Chan 82 N42°36.67' W94°17.69' 121° 5.8 NM to fld. 1164/7E. HIWAS.

DME portion unusable 275°-282° byd 12 NM.

BARRO NDB (LOM) 341 FO N42°30.87' W94°18.33' 061° 5.5 NM to fld.

ILS 109.1 I-FOD Rwy 06 LOM BARRO NDB. ILS unmonitored.



FORT MADISON MUNI (FSW) 2 N UTC-6(-5DT) N40°39.56' W91°19.61'

CHICAGO

724 B FUEL 100LL NOTAM FILE FSW

L-27B

RWY 16-34: H4002X75 (CONC-WC) S-19, D-25 MIRL

IAP

RWY 16: Trees. Rgt tfc.

RWY 34: REIL. PAPI(P2L). Trees.

AIRPORT REMARKS: Attended Mon-Sun on call. For arpt attendance call

319-372-1138 or 319-201-6066. Fuel self serve credit card.

Rwy 34 +33' trees 1000' right and left of centerline. ACTIVATE

MIRL Rwy 16-34 and REIL Rwy 34 and PAPI Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.925 (319) 372-5147.

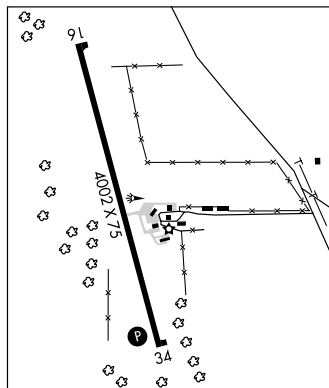
COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ CHICAGO CENTER APP/DEP CON 135.6

RADIO AIDS TO NAVIGATION: NOTAM FILE BRL.

BURLINGTON (L) VORTACW 111.4 BRL Chan 51 N40°43.40'

W90°55.55' 253° 18.7 NM to fld. 730/5E. HIWAS.



FULLER (See MILFORD)

GARRISON N42°13.30' W92°01.21' NOTAM FILE VTI.

CHICAGO

NDB (MHW) 338 VTI at Vinton Veterans Mem Airpark.

L-28F

GEORGE L SCOTT MUNI (See WEST UNION)

GREENFIELD MUNI (GFZ) 2 NE UTC-6(-5DT) N41°19.63' W94°26.71'

OMAHA

1364 B FUEL 100LL NOTAM FILE FOD

L-10J, 12I

RWY 07-25: H3400X60 (CONC) MIRL

IAP

RWY 14-32: H2500X50 (CONC) S-7 MIRL

RWY 14: REIL. VASI(V2L)—GA 3.0° TCH 26'.

RWY 32: REIL. VASI(V2L)—GA 3.0° TCH 26'. Road.

AIRPORT REMARKS: Unattended. For fuel during dalgt call 641-743-2183; nights call 641-743-2323 (Police

Department). Rwy 25 is calm wind rwy. Inadequate clnc for holding on turnaround at thld of Rwy 14. MIRL Rwy

07-25 preset on low ints, to increase ints—CTAF. ACTIVATE MIRL Rwy 14-32, VASI and REIL Rwy 14 and Rwy

32—CTAF.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 125.65

RADIO AIDS TO NAVIGATION: NOTAM FILE DSM.

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22' W93°38.92' 253° 36.6 NM to fld. 940/7E.

HIWAS.

NDB (MHW) 338 GFZ N41°19.53' W94°26.61' at fld. NOTAM FILE FOD.

GRINNELL RGNL (GGI) 1 S UTC-6(-5DT) N41°42.59' W92°44.16'

CHICAGO

1008 B FUEL 100LL JET A NOTAM GGI

H-5D, L-121, 28F

RWY 13-31: H5200X75 (CONC-GRVD) S-30, D-30 MIRL 0.4% up SE

IAP

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 34'. Thld dsplcd 200'. Pole.

RWY 31: REIL. PAPI(P2L)—GA 3.3° TCH 34'. Thld dsplcd 200'. Tree.

AIRPORT REMARKS: Attended Mon-Sat 1400-0000Z, Sun 1900-0000Z. For fuel after hrs call 641-236-3019. Rwy 31 is calm wind rwy. MIRL Rwy 13-31 preset low ints to increase ints and ACTIVATE PAPI and REIL Rwy 13 and Rwy 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.725 (641) 236-9720.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.35 (FORT DODGE RADIO)

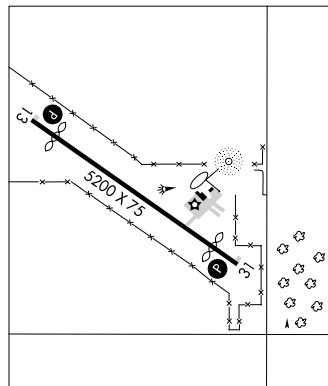
CHICAGO CENTER APP/DEP CON 127.05

RADIO AIDS TO NAVIGATION: NOTAM FILE TNU.

NEWTON (L) VOR/DME 112.5 TNU Chan 72 N41°47.03'

W93°06.54' 102° 17.3 NM to fld. 980/3E.

NDB (MHW) 248 GGI N41°42.56' W92°43.76' at fld. NOTAM FILE GGI.

**GRUNDY CENTER MUNI** (6K7) 3 W UTC-6(-5DT) N42°21.05' W92°50.61'

CHICAGO

1075 NOTAM FILE FOD

RWY 17-35: 2250X60 (TURF)

RWY 17: Thld dsplcd 640'. Road. RWY 35: Fence.

AIRPORT REMARKS: Unattended. Arpt CLOSED winter months. Radio control acft on and around arpt. Rwy 17 and Rwy 35 marked at corners and edges with yellow cones. Rwy 17 dsplcd thld marked with three yellow cones each side of rwy.

COMMUNICATIONS: CTAF 122.9**GUTHRIE CENTER** N41°40.91' W94°25.93' NOTAM FILE FOD.

OMAHA

NDB (MHW) 516 GCT at Guthrie Co Rgnl.

L-121

GUTHRIE CENTER**GUTHRIE CO RGNL** (GCT) 3 E UTC-6(-5DT) N41°41.27' W94°26.11'

OMAHA

1230 B FUEL 100LL NOTAM FILE FOD

L-121

RWY 18-36: H3400X60 (CONC) MIRL

IAP

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 29'. Road.

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 29'.

AIRPORT REMARKS: Unattended. MIRL Rwy 18-36 preset low ints, to increase ints and ACTIVATE PAPI Rwy 18 and Rwy 36, REIL Rwy 18 and Rwy 36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

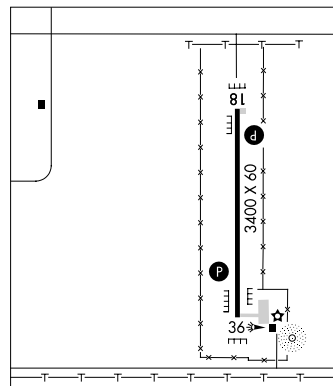
DES MOINES APP/DEP CON 135.2

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

LAMONI (H) VORTAC 116.7 LMN Chan 114 N40°35.81'

W93°58.06' 335° 68.8 NM to fld. 1140/7E. HIWAS.

GUTHRIE CENTER NDB (MHW) 516 GCT N41°40.91' W94°25.93' at fld.



HAMPTON MUNI (HPT) 2 SW UTC-6(-5DT) N42°43.42' W93°13.58'

1176 B S2 FUEL 100LL, JET A NOTAM FILE FOD

RWY 17-35: H4018X75 (CONC) S-12 MIRL 0.4% up N

RWY 17: REIL. PAPI(P2L)—GA 3.0° TCH 26'. Road.

RWY 35: REIL. PAPI(P2L)—GA 3.0° TCH 26'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z+. For attendant after hrs call 641-456-3409 (Police Dept). Radio controlled acft ops in area. ACTIVATE MIRL Rwy 17-35 PAPI Rwy 17 and Rwy 35—CTAF.

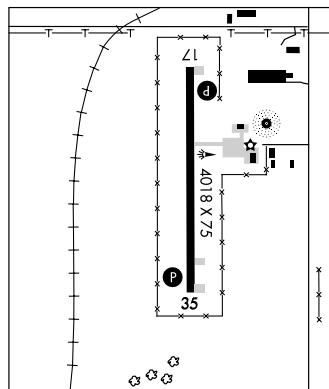
COMMUNICATIONS: CTAF/UNICOM 122.7

MINNEAPOLIS CENTER APP/DEP CON 134.0

RADIO AIDS TO NAVIGATION: NOTAM FILE MCW.

MASON CITY (H) VORTACW 114.9 MCW Chan 96 N43°05.69' W93°19.79' 162° 22.7 NM to fld. 1210/6E.

NDB (MHW) 230 HPT N42°43.53' W93°13.50' at fld.
NOTAM FILE FOD. Unmonitored.



OMAHA

L-12J

IAP

HARLAN MUNI (HNR) 3 SW UTC-6(-5DT) N41°35.06' W95°20.38'

1231 B S2 FUEL 100LL, JET A, MOGAS NOTAM FILE HNR

RWY 15-33: H4100X75 (ASPH-CONC) S-20, D-25 MIRL 0.9% up NW

RWY 15: PAPI(P2L)—GA 4.0° TCH 34'. Tree.

RWY 33: PAPI(P2L)—GA 3.0° TCH 34'. Road.

RWY 03-21: 1692X120 (TURF)

RWY 03: Fence. RWY 21: Fence.

AIRPORT REMARKS: Attended Apr-Sep 1400-0000Z+, Oct-Mar 1400-dusk. Rwy 15 is calm wind rwy. Rwy 03-21 thlds and sides marked with cones. ACTIVATE MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33—CTAF.

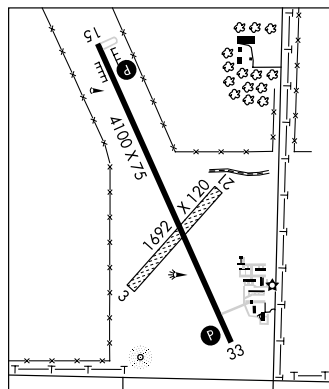
WEATHER DATA SOURCES: AWOS-3 118.325 (712) 744-4400**COMMUNICATIONS:** CTAF/UNICOM 122.8

® OMAHA APP/DEP CON 124.5

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

OMAHA (H) VORTAC 116.3 OVR Chan 110 N41°10.04' W95°44.20' 028° 30.8 NM to fld. 1300/8E. **HIWAS.**

NDB (MHW) 272 HNR N41°34.74' W95°20.46' at fld.
NOTAM FILE HNR. Unmonitored. SHUTDOWN.



OMAHA

L-12J

IAP

HILLZ N41°45.10' W90°23.43' NOTAM FILE CWI.**NDB (LOM)** 517 FN 030° 5.5 NM to Clinton Muni.

CHICAGO

HUMBOLDT MUNI (ØK7) 1 W UTC-6(-5DT) N42°44.16' W94°14.71'**OMAHA**1093 **FUEL** 100LL, MOGAS NOTAM FILE FOD

L-121

RWY 12-30: H3417X60 (ASPH) S-4 MRL**RWY 12:** SAVASI(S2L). Trees.**RWY 30:** REIL. SAVASI(S2L). Pole.**AIRPORT REMARKS:** Unattended. For svc after hrs call police dispatch at 515-332-2600. For fuel call 515-332-3435.

Must call ahead for fuel. Migratory bird hazard on and invof arpt. Rwy 30 REIL OTS indef. Rwy lgts opr low intensity dusk-dawn, ACTIVATE CTAF 5 times for high intensity only.

COMMUNICATIONS: CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.**FORT DODGE (H) VORTACW** 113.5 FOD Chan 82 N42°36.67' W94°17.69' 009° 7.8 NM to fld. 1164/7E.
HIWAS.**IDA GROVE MUNI** (IDG) 2 SE UTC-6(-5DT) N42°19.96' W95°26.69'**OMAHA**1245 **B FUEL** 100LL NOTAM FILE FOD

L-121

RWY 12-30: H3172X50 (ASPH) LIRL**RWY 12:** Thld dspcd 350'. Trees.**RWY 30:** Thld dspcd 290'. Road.**AIRPORT REMARKS:** Attended on call. For fuel between 1400-2300Z† call 712-364-2428 (City Hall) after 2300Z† call 712-364-3146 (Sheriff's Office). 600' model airplane rwy located ½ mile N of arpt, do not mistake for arpt rwy. For LIRL Rwy 12-30 key CTAF 7 times for med ints only.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE SUX.**SIOUX CITY (L) VORTAC** 116.5 SUX Chan 112 N42°20.67' W96°19.42' 082° 39.1 NM to fld. 1087/9E.
HIWAS.**INDEPENDENCE MUNI** (IIB) 3 SW UTC-6(-5DT) N42°27.41' W91°56.86'**CHICAGO**979 **B S4 FUEL** 100LL, JET A NOTAM FILE IIB Not insp.

H-5D, L-28F

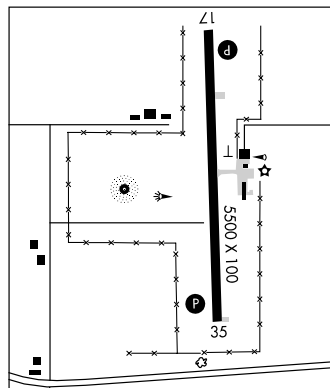
RWY 17-35: H5500X100 (CONC) S-40, D-60 MRL

IAP

0.2% up S

RWY 17: REIL. PAPI(P2L)—GA 3.0° TCH 40'.**RWY 35:** REIL. PAPI(P2L)—GA 3.0° TCH 40'.**AIRPORT REMARKS:** Attended 1300Z†-dusk. Unlgt'd pole 1125' MSL 800' W AER 17. MRL Rwy 17-35 preset low ints to ACTIVATE higher ints and REILS and PAPI Rwy 17 and Rwy 35—CTAF.**WEATHER DATA SOURCES:** AWOS-3 120.825 (319) 334-3879.**COMMUNICATIONS:** CTAF/UNICOM 122.8® **WATERLOO APP/DEP CON** 118.9 (1200-0200Z†)**CHICAGO CENTER APP/DEP CON** 118.9 (0200-1200Z†)**RADIO AIDS TO NAVIGATION:** NOTAM FILE ALO.**WATERLOO (H) VORTACW** 112.2 ALO Chan 59 N42°33.39'W92°23.94' 100° 21 NM to fld. 865/6E. **HIWAS.****WAPSIE NDB (MHW)** 206 IIB N42°27.13' W91°57.06' at fld.

NOTAM FILE IIB.

**IOWA CITY** N41°31.14' W91°36.80' NOTAM FILE IOW.**CHICAGO****(H) VORTAC** 116.2 IOW Chan 109 018° 7.8 NM to Iowa City Muni. 770/5E.

H-5D, L-28G

RCO 122.25 122.1R 116.2T (FORT DODGE RADIO)

IOWA CITY MUNI (IOW) 2 SW UTC-6(-5DT) N41°38.39' W91°32.89'

668 B S4 FUEL 100LL JET A TPA-1668(1000) NOTAM FILE IOW

RWY 07-25: H5004X100 (CONC) S-25, D-45 MIRL 0.7% up SW

RWY 07: PAPI(P4L)—GA 3.5° TCH 51'. Trees. Rgt tfc.

RWY 25: PAPI(P4L)—GA 3.0° TCH 42'. Thld displcd 808'. Tree.

RWY 12-30: H3900X150 (CONC) S-25, D-45 MIRL
0.3% up NW

RWY 12: Tree. Rgt tfc. RWY 30: Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA-5004 TODA-5154 ASDA-4196 LDA-4196

RWY 25: TORA-5004 TODA-5004 ASDA-5004 LDA-4196

AIRPORT REMARKS: Attended May-Oct 1200-0300Z†, Nov-Apr 1300-0300Z†. Waterfowl and deer on and in/ov arpt. Glider activity on and in/ov arpt. Numerous unlighted cranes 200' AGL 2 NM radius of arpt. Helicopter activity ¾ mile N of arpt in/ov University of Iowa Hospital. Noise abatement procedures in effect, ctc arpt manager 319-356-5045. MIRL Rwy 07-25 and Rwy 12-30 preset low ints, to increase ints and ACTIVATE PAPI Rwy 07 and Rwy 25—CTAF.

WEATHER DATA SOURCES: ASOS 128.075 (319) 339-9491 (except thunderstorm).

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.25 122.1R 116.2T (FORT DODGE RADIO)

Ⓡ CEDAR RAPIDS APP/DEP CON 119.7 (1100-0530Z†) CLNC DEL 119.05

CHICAGO CENTER APP/DEP CON 132.8 (0530-1100Z†)

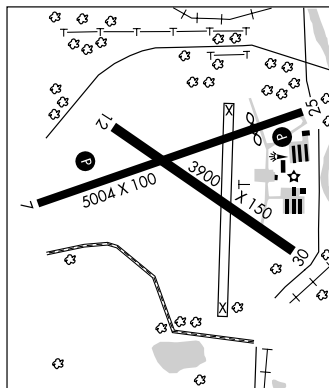
RADIO AIDS TO NAVIGATION: NOTAM FILE IOW.

(H) VORTAC 116.2 IOW Chan 109 N41°31.14' W91°36.80' 017° 7.8 NM to fld. 770/5E.

CHICAGO

H-5D, L-286

IAP

**IOWA FALLS MUNI** (IFA) 3 S UTC-6(-5DT) N42°28.25' W93°16.20'

1137 B S2 FUEL 100LL NOTAM FILE IFA

RWY 13-31: H4001X75 (ASPH) S-13 MIRL

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 27'.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†. Rwy 31 is calm wind rwy. Rwy 13 PAPI OTS indef. Rwy 31 PAPI OTS indef. Rwy 31 REIL OTS indef. MIRL Rwy 13-31 preset on low ints, to increase ints and ACTIVATE REIL and PAPI Rwy 13 and Rwy 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.425 (641) 648-2469.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ WATERLOO APP/DEP CON 118.9 (1200-0200Z†)

CHICAGO CENTER APP/DEP CON 118.9 (0200-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE MCW.

MASON CITY (H) VORTACW 114.9 MCW Chan 96 N43°05.69'

W93°19.79' 170° 37.5 NM to fld. 1210/6E.

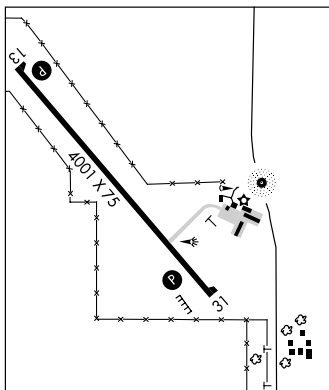
NDB (MHW) 368 IFA N42°28.60' W93°15.93' at fld.

Unmonitored. NOTAM FILE FOD.

OMAHA

L-12J

IAP

**JAMES G. WHITING MEM FLD** (See MAPLETON)

JEFFERSON MUNI (EFW) 2 E UTC-6(-5DT) N42°00.64' W94°20.54'

OMAHA

1044 B S2 FUEL 100LL NOTAM FILE FOD

L-121

RWY 14-32: H3198X75 (CONC) S-11 MIRL

IAP

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Road.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 27'. Fence.

RWY 18-36: 1696X150 (TURF)

RWY 18: Road.

RWY 36: P-lines.

AIRPORT REMARKS: Attended 1500-0300Z. CAUTION: Ultralight activity on and invof arpt. Rwy 32 is calm wind rwy. Rwy 18-36 marked with yellow cones. ACTIVATE MIRL Rwy 14-32 and REIL Rwy 14 and Rwy 32—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

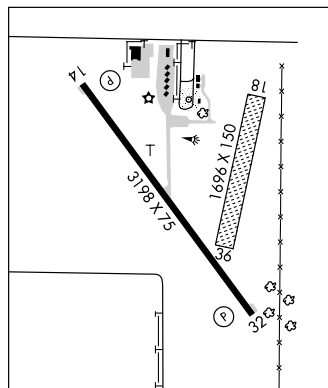
MINNEAPOLIS CENTER APP/DEP CON 134.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 176° 36.1 NM to fld. 1164/7E. HIWAS.

NDB (MHW) 391 EFW N42°00.81' W94°20.56' at fld.

**JUDGE LEWIS FLD MT AYR MUNI** (See MOUNT AYR)**KEOKUK MUNI** (EOK) 4 NW UTC-6(-5DT) N40°27.60' W91°25.71'

CHICAGO

671 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE EOK

H-5D, L-27B

RWY 08-26: H5500X100 (CONC-WC) MIRL

IAP

RWY 08: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

RWY 26: MALSR. PAPI(P4L)—GA 3.0° TCH 40'.

RWY 14-32: H3576X100 (CONC) S-30, D-30 MIRL (NSTD)

RWY 14: REIL. VASI(V4L)—GA 3.0° TCH 36'. Trees.

RWY 32: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Tree.

AIRPORT REMARKS: Attended Sat-Sun 1400-2300Z, Apr-Oct Mon-Fri 1400-0000Z, Nov-Mar Mon-Fri 1400-2300Z. CLOSED major holidays, fuel avbl. For svc after hrs call 319-470-0807.

Unlighted tower approximately 1000' MSL 4 miles SE. Rwy 26 is calm wind rwy. Rwy 14-32 have 6 thld lgts. ACTIVATE MIRL Rwy 14-32, Rwy 08-26, VASI Rwy 14, PAPI Rwy 08, Rwy 26, Rwy 32, REIL Rwy 08, Rwy 14 and Rwy 32 and MALSR Rwy 26—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.375 (319) 524-7884.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.125 (FORT DODGE RADIO)

KANSAS CITY CENTER APP/DEP CON 135.525

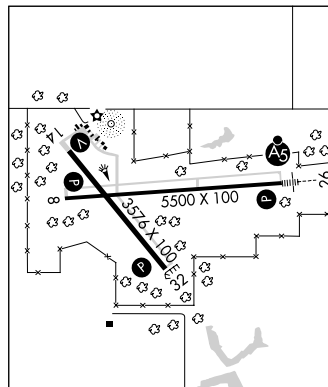
RADIO AIDS TO NAVIGATION: NOTAM FILE BRL.

BURLINGTON (L) VORTACW 111.4 BRL Chan 51 N40°43.40'

W90°55.55' 231° 27.9 NM to fld. 730/5E. HIWAS.

NDB (MHW) 366 EOK N40°27.88' W91°26.02' at fld. NOTAM FILE EOK.

ILS/DME 110.9 I-BBJ Chan 46 Rwy 26. Class IT. ILS unmonitored.

**KEOSAUQUA MUNI** (6K9) 1 E UTC-6(-5DT) N40°44.09' W91°56.93'

CHICAGO

580 NOTAM FILE FOD

RWY 06-24: 2275X100 (TURF)

RWY 06: Thld dsplcd 395'. Trees.

RWY 24: Thld dsplcd 1000'. Trees.

AIRPORT REMARKS: Unattended. Rwy 06 and Rwy 24 thlds and edges marked with yellow cones. Public phone at main hangar.

COMMUNICATIONS: CTAF 122.9

KNOXVILLE MUNI (OXV) 2 S UTC-6(-5DT) N41°17.95' W93°06.82'

OMAHA

928 B S4 FUEL 100LL, JET A NOTAM FILE OXV

L-121, 27A

RWY 15-33: H4000X75 (ASPH-CONC) S-28, D-48 MIRL

IAP

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Pole.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 27'. Pole.

AIRPORT REMARKS: Attended dawn-dusk. For svc after hours call 641-842-4423 or 641-891-6824. ACTIVATE MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33 and REIL Rwy 15 and Rwy 33—CTAF.

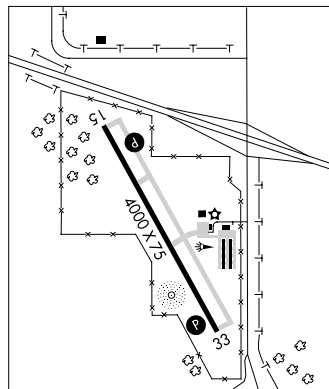
WEATHER DATA SOURCES: AWOS-3 119.775 (641) 828-8406.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ DES MOINES APP/DEP CON 123.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DSM.

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22' W93°38.92' 102° 25.5 NM to fld. 940/7E. **HIWAS.**

NDB (MHW) 284 OXV N41°17.75' W93°06.85' at fld.
NOTAM FILE OXV.

**LAKE MILLS MUNI** (ØY6) 1 E UTC-6(-5DT) N43°24.82' W93°30.71'

OMAHA

1260 B NOTAM FILE FOD

RWY 18-36: 3380X100 (TURF) LIRL

RWY 18: Trees. RWY 36: Thld dsplcd 190'. Trees.

AIRPORT REMARKS: Unattended. Arpt CLOSED Dec-Mar. Rwy 18 and Rwy 36 thlds and edges marked with yellow cones.

COMMUNICATIONS: CTAF 122.9**LAMONI** N40°35.81' W93°58.06' NOTAM FILE FOD.

OMAHA

(H) VORTAC 116.7 LMN Chan 114 047° 3.7 NM to Lamoni Muni. 1140/7E. **HIWAS.**

H-5C, L-27A

Vortac unusable 257°-290° blo 3,000', 291°-319°; 320°-054° blo 3,000'.

RCO 122.1R 116.7T (FORT DODGE RADIO)

LAMONI MUNI (LWD) 2 NE UTC-6(-5DT) N40°38.00' W93°54.13'

OMAHA

1131 B FUEL 100LL NOTAM FILE LWD

L-27A

RWY 18-36: H2900X60 (CONC) MIRL

IAP

RWY 36: Tree.

AIRPORT REMARKS: Unattended. Self service fuel 24 hrs. Credit card. Ultralights on and in vicinity of arpt. ACTIVATE MIRL Rwy 18-36 —122.8.

WEATHER DATA SOURCES: ASOS 120.0 (641) 784-8122.**COMMUNICATIONS:** CTAF 122.9

Ⓡ MINNEAPOLIS CENTER APP/DEP CON 125.65

RADIO AIDS TO NAVIGATION:(H) VORTAC 116.7 LMN Chan 114 047° 3.7 NM to fld. 1140/7E. **HIWAS.****LARCHWOOD****ZANGGER VINTAGE AIRPARK** (2VA) 2 E UTC-6(-5DT) N43°27.08' W96°24.35'

OMAHA

1476 NOTAM FILE FOD

Not insp.

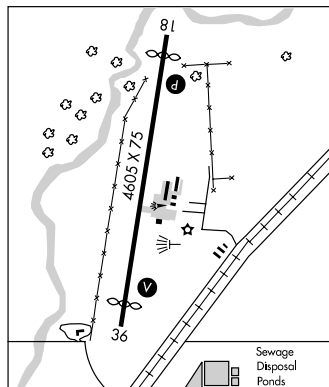
RWY 12-30: 3350X100 (TURF) LIRL

RWY 12: Tree. RWY 30: Silo.

AIRPORT REMARKS: Attended continuously. Arpt CLOSED Dec-Feb. No snow removal. During winter call 712-477-2230 or 712-477-2256 for field conditions. Rwy 12-30 marked with yellow cones. The unmarked hard surfac pavement that intersects turf Rwy 12-30 is an asph twy. ACTIVATE LIRL Rwy 12-30—122.9.

COMMUNICATIONS: CTAF 122.9

LE MARS MUNI (LRJ) 2 SW UTC-6(-5DT) N42°46.68' W96°11.62'
 1197 B S2 FUEL 100LL, JET A TPA-2197(1000) NOTAM FILE LRJ
 RWY 18-36: H4605X75 (CONC) S-28, D-48 MIRL
 RWY 18: REIL. PAPI(P2L)—GA 3.0°. Thld dsplcd 300'.
 RWY 36: REIL. SAVASI(S2R)—GA 3.0°. Thld dsplcd 300'.
AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z, Sat
 1400-1900Z, Sun on call. After hrs service fee \$25. Rwy 36 is
 calm wind rwy. ACTIVATE MIRL Rwy 18-36, REIL Rws 18 and Rwy
 36, PAPI Rwy 18 and SAVASI Rwy 36—CTAF.
WEATHER DATA SOURCES: AWOS-3 125.525 (712) 546-8439.
COMMUNICATIONS: CTAF/UNICOM 122.8
 (R) SIOUX CITY APP/DEP CON 124.6 (1200-0330Z)
 MINNEAPOLIS CENTER APP/DEP CON 124.1 (0330-1200Z)
RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.
 SIOUX CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67'
 W96°19.42' 003° 26.6 NM to fld. 1087/9E. HIWAS.

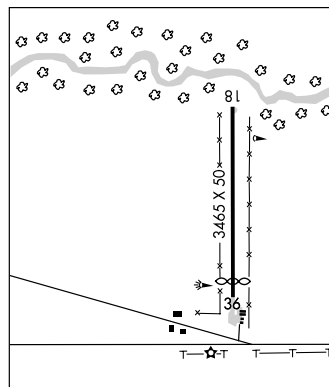


OMAHA
 L-121
 IAP

LITTLE SIOUX N43°07.62' W95°07.96' NOTAM FILE SPW.
 NDB (MHW) 326 LTU 302° 3.9 NM to Spencer Muni. Unmonitored.

OMAHA
 L-121

MANCHESTER MUNI (C27) 2 W UTC-6(-5DT) N42°29.42' W91°29.87'
 987 B FUEL 100LL NOTAM FILE FOD
 RWY 18-36: H3465X50 (ASPH) LIRL
 RWY 18: Tree.
 RWY 36: Thld dsplcd 305'. Pole.
AIRPORT REMARKS: Attended prior request. For svc call 563-927-3636.
 Deer on and invof arpt. Ultralight activity invof arpt.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE DBQ.
 DUBUQUE (H) VORTACW 115.8 DBQ Chan 105 N42°24.09'
 W90°42.54' 275° 35.4 NM to fld. 1051/4E.



CHICAGO
 L-286

MAPLETON**JAMES G. WHITING MEM FLD** (MEY) 1 N UTC-6(-5DT) N42°10.70' W95°47.62'**OMAHA**

L-121

IAP

1116 B S4 FUEL 100 NOTAM FILE FOD

RWY 02-20: H2801X60 (CONC) S-28, D-48 LIRL

RWY 02: Tree. RWY 20: REIL. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†. Rwy 20 is calm wind rwy. Rwy 02-20 LIRL. ACTIVATE REIL Rwy 20—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® SIOUX CITY APP/DEP CON 124.6 (1200-0330Z‡)

MINNEAPOLIS CENTER APP/DEP CON 119.6 (0330-1200Z‡)

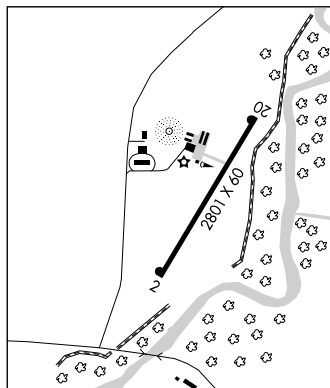
RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.

SIOUX CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67'

W96°19.42' 104° 25.6 NM to fld. 1087/9E. HIWAS.

NDB (MHW) 335 MEY N42°10.83' W95°47.68' at fld.

NOTAM FILE FOD. Unmonitored Mon-Fri 2300-1400Z†, unmonitored Sat-Sun and holidays.

**MAQUOKETA MUNI** (OQW) 3 W UTC-6(-5DT) N42°03.00' W90°44.33'**CHICAGO**

L-286

IAP

769 B FUEL 100LL, JET A NOTAM FILE FOD

RWY 15-33: H3300X60 (CONC) MIRL 0.9% up NW

RWY 15: REIL. PAPI(P2L)—GA 4.0° TCH 37'. Trees.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 32'. Tree.

AIRPORT REMARKS: Unattended. Service avbl at 1-800-553-5283.

Caution: Ultralight activity on and invof arpt. Rwy 33 is calm wind rwy. ACTIVATE MIRL Rwy 15-33, PAPI Rwy 15 and Rwy 33—CTAF.

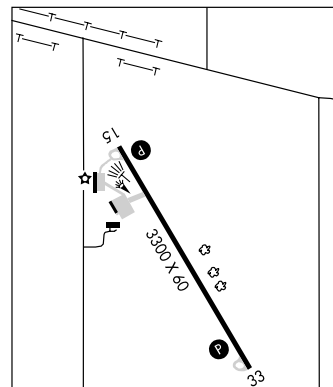
COMMUNICATIONS: CTAF/UNICOM 122.8

® CHICAGO CENTER APP/DEP CON 133.95

RADIO AIDS TO NAVIGATION: NOTAM FILE DBQ.

DUBUQUE (H) VORTACW 115.8 DBQ Chan 105 N42°24.09'

W90°42.54' 180° 21.1 NM to fld. 1051/4E.

**MARION** (C17) 3 E UTC-6(-5DT) N42°01.79' W91°31.90'**CHICAGO**

L-286

862 B S4 FUEL 100LL, MOGAS NOTAM FILE FOD

RWY 17-35: H3775X100 (ASPH-TURF) RWY LGTS (NSTD)

RWY 17: Thld dspcd 260'. Road. RWY 35: Thld dspcd 100'. Brush.

AIRPORT REMARKS: Attended continuously. Parachute Jumping. Deer and waterfowl on and invof arpt. Rwy 17-35 center 26' of rwy is asph; remainder is turf. Rough transition from asph to turf first 1000' of Rwy 35. Rwy 17-35 lgts 37' from rwy edge.**COMMUNICATIONS:** CTAF/UNICOM 122.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE CID.

CEDAR RAPIDS (H) VORW/DME 114.1 CID Chan 88 N41°53.25' W91°47.14' 231° 14.2 NM to fld. 870/5E.

MARSHALLTOWN MUNI (MIW) 3 N UTC-6(-5DT) N42°06.76' W92°55.07'

CHICAGO

974 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE MIW

H-5D, L-12J

RWY 12-30: H5006X100 (ASPH) S-35, D-42 MIRL

IAP

RWY 12: REIL. VASI(V4L)—GA 3.0° TCH 42'. Ground/corn crop.

RWY 30: REIL. VASI(V4L)—GA 3.0° TCH 37'. Road.

RWY 18-36: H2806X50 (ASPH) S-15 MIRL

RWY 18: Trees.

RWY 36: Road.

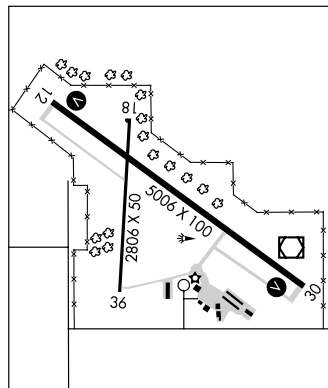
AIRPORT REMARKS: Attended 1300Z±-0000Z±. For arpt attendant after hrs call 641-753-7698. MIRL Rwy 12-30 preset low ints, to increase ints and ACTIVATE REIL and VASI Rwy 12 and Rwy 30—CTAF.

WEATHER DATA SOURCES: ASOS 128.325 (641) 752-2339.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **WATERLOO APP/DEP CON** 120.9 (1200-0200Z±). **CLNC DEL** 120.9

CHICAGO CENTER APP/DEP CON 127.05 (0200-1200Z±)**RADIO AIDS TO NAVIGATION:** NOTAM FILE MIW.**ELMWOOD (L) VORW/DME** 109.4 JWW Chan 31 N42°06.68'

W92°54.53' at fld. 981/3E.

**MASON CITY MUNI** (MCW) 5 W UTC-6(-5DT) N43°09.47' W93°19.88'

OMAHA

1213 B S4 FUEL 100LL, JET A TPA-2013(800) Class I, ARFF Index A NOTAM FILE MCW H-5D, L-12J

RWY 18-36: H6501X150 (ASPH-GRVD) S-80, D-110, ST-140, DT-180 HIRL 0.3% up N IAP, AD

RWY 18: MALS. VASI(V4L)—GA 3.0° TCH 39'.

RWY 36: MALSR. PAPI(P4L)—GA 2.9° TCH 62'.

RWY 12-30: H5502X150 (ASPH-GRVD) S-80, D-110, ST-140,

DT-180 MIRL 0.3% up NW

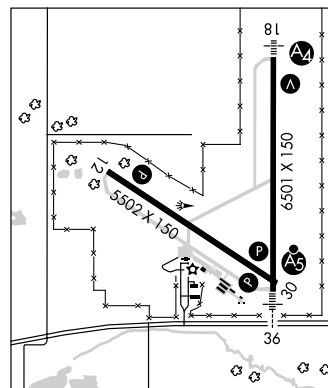
RWY 12: REIL. PAPI(P4L)—GA 3.0° TCH 39'. Tree.

RWY 30: PAPI(P4L)—GA 3.0° TCH 32'. Building.

AIRPORT REMARKS: Attended Mon-Fri 1030-0500Z±, Sat 1100-0000Z±, Sun 1600-0500Z±. Arpt ops 641-421-3696. For svc or fuel after hrs PPR call 641-430-9898. Bird and deer activity on and invof arpt. CLOSED to air carrier ops with more than 30 passenger seats except 24 hrs PPR, call arpt manager 641-421-3397. Air carrier ops in excess of 15 minutes outside scheduled arrival/departure times not authorized except with prior coordination with arpt manager. Acft ops 9 passenger seats or more not authorized in excess of 15 minutes before/after scheduled arrival/departure time without PPR, call 641-430-0980. All general aviation tfc remain clear of air carrier ramp during air carrier ops. Air carrier ramp defined by red line. Rwy 30 is calm wind rwy. Due to rwy and twy end elevation differentials and acft height: pilots may lose line of sight of other acft on opposing rwy and twy ends. All departure/arrival acft use CTAF. ACTIVATE HIRL Rwy 18-36, MIRL Rwy 12-30, REIL Rwy 12, MALS Rwy 18, MALSR Rwy 36 and VASI Rwy 18 and PAPI Rwy 12, Rwy 30 and Rwy 36—CTAF. PAPIs on during dalgt hrs. Ldg fee for all commercial operated acft.

WEATHER DATA SOURCES: ASOS 120.3 (641) 357-8490.**COMMUNICATIONS:** CTAF/UNICOM 123.0**RCO** 122.6 (FORT DODGE RADIO)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.3

RADIO AIDS TO NAVIGATION: NOTAM FILE MCW.(H) **VORTACW** 114.9 MCW Chan 96 N43°05.69' W93°19.79' 353° 3.8 NM to fld. 1210/6E.**SURFF NDB (LOM)** 348 MC N43°03.15' W93°19.66' 356° 6.3 NM to fld.**ILS** 109.5 I-MCW Rwy 35. LOM **SURFF NDB**. ILS unmonitored.**MATHEWS MEM** (See TIPTON)**MERLE** N41°54.18' W93°39.53' NOTAM FILE FOD.

OMAHA

NDB (LOM) 362 EE 013° 5.6 NM to Ames Muni. Unmonitored.

MILFORD**FULLER** (4D8) 1 NW UTC-6(-5DT) N43°19.99' W95°09.54'**OMAHA**1439 **FUEL** 100LL NOTAM FILE FOD

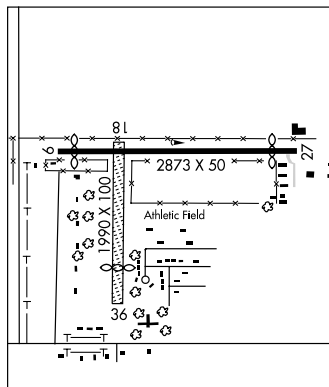
L-121

RWY 09-27: H2873X50 (ASPH) LIRL

IAP

RWY 09: Thld dsplcd 60'. Road. **RWY 27:** Thld dsplcd 360'. Tree.**RWY 18-36:** 1990X100 (TURF)**RWY 18:** Fence. **RWY 36:** Thld dsplcd 400'. Tree.**AIRPORT REMARKS:** Unattended. For fuel call

712-337-0247/336-2525—Police Dept. Rwy 09 and Rwy 27 thlds dsplcd ngt ops only. Rwy 27 is calm wind rwy. Rwy 18-36 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9**MINNEAPOLIS CENTER APP/DEP CON** 127.75**RADIO AIDS TO NAVIGATION:** NOTAM FILE SPW.**SPENCER (L) VOR/DME** 110.0 SPW Chan 37 N43°09.73' W95°12.06' 005° 10.4 NM to fld. 1330/5E.**MONONA MUNI** (7C3) 3 SE UTC-6(-5DT) N43°01.97' W91°20.79'**CHICAGO**1147 **FUEL** 100LL, MOGAS NOTAM FILE FOD**RWY 18-36:** 2650X120 (TURF) LIRL**RWY 18:** Road.**AIRPORT REMARKS:** Unattended. For fuel call 563-536-2851 or 563-539-2355. Arpt CLOSED Dec-Feb. No snow removal for conditions call 563-539-2355 or 563-536-2851. Rwy 18-36 marked with yellow cones on rwy ends and sides.**COMMUNICATIONS:** CTAF 122.9**MONTEZUMA****SIG FLD** (7C5) 3 S UTC-6(-5DT) N41°32.90' W92°32.08'**CHICAGO**

929 NOTAM FILE FOD

RWY 18-36: 2600X105 (TURF)**RWY 18:** Thld dsplcd 400'. Pole.**AIRPORT REMARKS:** Unattended. Rwy 18-36 rwy ends and sides marked with yellow cones. Dsplcd thld marked with yellow cones-2 cones placed outboard of rwy edges and 400' from AER 18.**COMMUNICATIONS:** CTAF 122.9**MONTICELLO RGNL** (MX0) 2 SE UTC-6(-5DT) N42°13.22' W91°09.80'**CHICAGO**832 B S4 **FUEL** 100LL, JET A OX 2 NOTAM FILE MX0

L-286

RWY 15-33: H4400X75 (CONC) S-12.5 MIRL

IAP

RWY 15: PAPI(P2L). Road. **RWY 33:** PAPI(P2L). Trees.**RWY 09-27:** 2316X90 (TURF) 0.4% up E**RWY 27:** Road.**AIRPORT REMARKS:** Attended 1330-0030Z+. For svc after hrs call 319-465-4901. Unattended all major holidays. 24 hr self svc fuel. Rwy 33 is calm wind rwy. Rwy 15 PAPI OTS indef. ACTIVATE MIRL Rwy 15-33—CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.275 (319) 465-6155.**COMMUNICATIONS:** CTAF/UNICOM 122.8® **CEDAR RAPIDS APP/DEP CON** 134.05 (1100-0530Z+)**CHICAGO CENTER APP/DEP CON** 132.8 (0530-1100Z+)**RADIO AIDS TO NAVIGATION:** NOTAM FILE DBQ.**DUBUQUE (H) VORTACW** 115.8 DBQ Chan 105 N42°24.09' W90°42.54' 238° 23.0 NM to fld. 1051/4E.**MORNINGSTAR FLD** (See DES MOINES)

MOUNT AYR**JUDGE LEWIS FLD MT AYR MUNI** (1Y3) 2 SE UTC-6(-5DT) N40°42.33' W94°13.43'

OMAHA

1265 NOTAM FILE FOD

RWY 17-35: 2600X40 (GRVL-TRTD) LIRL (NSTD)

RWY 17: Tree.

AIRPORT REMARKS: Unattended. Rwy 17-35 thresholds marked with yellow cones displcd thld and edges 60' from centerline. Rwy 17-35 NSTD LIRL, rwy lgts are 60' from centerline.

COMMUNICATIONS: CTAF 122.9**MOUNT PLEASANT MUNI** (MPZ) 3 SE UTC-6(-5DT) N40°56.80' W91°30.66'

CHICAGO

730 B S2 FUEL 100LL, JET A OX 1,2 NOTAM FILE MPZ

L-27B

RWY 15-33: H4001X75 (ASPH) S-12, D-16 MIRL

IAP

RWY 15: PAPI(P2L)—GA 3.0° TCH 35'. Tree.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 29°. Fence. Rgt tfc.

RWY 03-21: 1965X120 (TURF)

RWY 03: Tree.

RWY 21: Fence.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†, Sat-Sun on call.

For arpt attendance on Sat-Sun call 1-800-711-6266. Rwy 03-21 corners and edges marked by yellow cones. MIRL Rwy 15-33 preset on low ints only. ACTIVATE REIL Rwy 33 only when MIRL ops—CTAF.

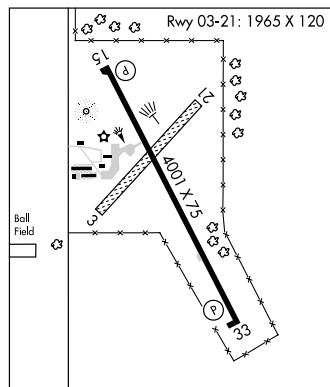
WEATHER DATA SOURCES: AWOS-3 119.325 (319) 385-4926.**COMMUNICATIONS:** CTAF/UNICOM 123.05

CHICAGO CENTER APP/DEP CON 135.6

RADIO AIDS TO NAVIGATION: NOTAM FILE BRL.

BURLINGTON (L) VORTACW 111.4 BRL Chan 51 N40°43.40' W90°55.55' 292° 29.8 NM to fld. 730/5E. **HIWAS.**

NDB (MHW) 212 MPZ N40°56.94' W91°30.91' at fld.
NOTAM FILE MPZ.

**MUSCATINE MUNI** (MUT) 5 SW UTC-6(-5DT) N41°22.07' W91°08.89'

CHICAGO

547 B S2 FUEL 100LL, JET A, MOGAS NOTAM FILE MUT

H-5D, L-27B

RWY 06-24: H5500X100 (CONC-GRVD) S-28 MIRL

IAP

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 34'.

RWY 24: MALSR. PAPI (P4R)—GA 3.0° TCH 52'.

RWY 12-30: H4000X75 (CONC-GRVD) MIRL

RWY 12: REIL. PAPI(P4L)—GA 3.0° TCH 44'.

RWY 30: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended 1300Z†-dusk. For attendant after hours call 563-263-8672, arpt unattended Thanksgiving, Christmas, New Years Day and Easter. Glider ops on arpt. MIRL Rwy 06-24 and Rwy 12-30 preset on low ints, to increase ints and ACTIVATE VASI Rwy 06, MALSR Rwy 24, PAPI Rwy 24, Rwy 12 and Rwy 30, REIL Rwy 06, Rwy 12 and Rwy 30—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.775 (563) 263-0902.**COMMUNICATIONS:** CTAF/UNICOM 122.7

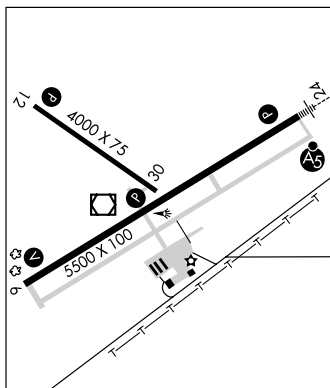
Ⓡ QUAD CITY APP/DEP CON 118.2 (1130-0430Z†)

Ⓡ CHICAGO CENTER APP/DEP CON 118.75 (0430-1130Z†)

AIRSPACE: CLASS E svc 1100-0500Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MUT.

PORT CITY (L) VORW/DME 116.5 DDD Chan 112 N41°21.98' W91°08.94' at fld. 540/1E.

ILS/DME 109.15 I-LUC Chan 28(Y) Rwy 24 Class I ILS unmonitored.



NEW HAMPTON MUNI (1Y5) 2 NW UTC-6(-5DT) N43°05.23' W92°20.59'

CHICAGO

1173 B NOTAM FILE FOD

RWY 17-35: H2900X75 (ASPH) S-16

RWY 17: Tree. RWY 35: Road.

RWY 04-22: 2300X105 (TURF)

RWY 04: Pole. RWY 22: Road.

AIRPORT REMARKS: Unattended. Parachute Jumping. Radio controlled acft ops in area. Rwy 04-22 thld and edges marked with yellow cones. Rwy 17 is calm wind rwy.

COMMUNICATIONS: CTAF 122.9**NEWTON MUNI** (TNU) 2 SE UTC-6(-5DT) N41°40.47' W93°01.30'

OMAHA

H-5D, L-12J

IAP

953 B S4 FUEL 100LL, JET A NOTAM FILE TNU

RWY 14-32: H5599X100 (ASPH) S-22, D-30 MIRL

RWY 14: REIL. VASI(V4L)—GA 3.0° TCH 39'. Road.

RWY 32: MALSR. VASI(V4L)—GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended Mon-Fri 1330-0000Z+, Sat-Sun 1400-2300Z+, after hrs only call 641-791-0590. Rwy 14 is calm wind rwy. Rwy 32 VASI unusable byd 9° left of course. MIRL Rwy 14-32 preset low ints, to increase ints and ACTIVATE VASI Rwy 14 and Rwy 32, REIL Rwy 14 and MALSR Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS-3 132.275 (641) 791-3302.**COMMUNICATIONS:** CTAF/UNICOM 122.8

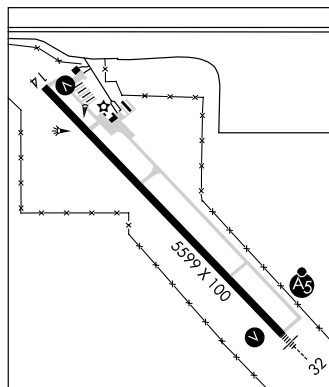
RCO 122.1R 112.5T (FORT DODGE RADIO)

® DES MOINES APP/DEP CON 123.9 CLNC DEL 126.3

RADIO AIDS TO NAVIGATION: NOTAM FILE TNU.

(L) VOR/DME 112.5 TNU Chan 72 N41°47.03' W93°06.54'
146° 7.6 NM to fld. 980/3E.

ILS 109.7 I-MGX Rwy 32. Class IB. ILS unmonitored.

**NORTHEAST IOWA RGNL** (See CHARLES CITY)**NORTHWOOD MUNI** (5D2) 1 E UTC-6(-5DT) N43°26.90' W93°12.11'

OMAHA

1224 NOTAM FILE FOD

RWY 17-35: 3300X100 (TURF) LIRL

RWY 35: Trees.

AIRPORT REMARKS: Unattended. Parachute Jumping. Crop dusting and skydiving planes on and in vicinity of arpt. Rwy 17-35 thlds and edges marked with orange/white panels. Twy exits marked with blue/white panels.

COMMUNICATIONS: CTAF 122.9

DELWEIN MUNI (OLZ) 3 W UTC-6(-5DT) N42°40.85' W91°58.47'

CHICAGO

1076 B S4 FUEL 100LL, JET A NOTAM FILE OLZ

L-28F

RWY 13-31: H4001X75 (CONC-WC) S-12 MIRL 0.4% up NW

IAP

RWY 13: REIL. Road.

RWY 18-36: 1800X85 (TURF)

RWY 18: Road.

AIRPORT REMARKS: Attended 1400Z†-dusk. After hrs svc by appointment, call 563-880-2915. Rwy 18-36 CLOSED after first snowfall. Rwy 18 and Rwy 36 thlds and edges marked with yellow cones. ACTIVATE MIRL Rwy 13-31 and REIL Rwy 13—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.675 (319) 283-3518.

COMMUNICATIONS: CTAF/UNICOM 122.8

® **WATERLOO APP/DEP CON** 118.9 (1200-0200Z†)

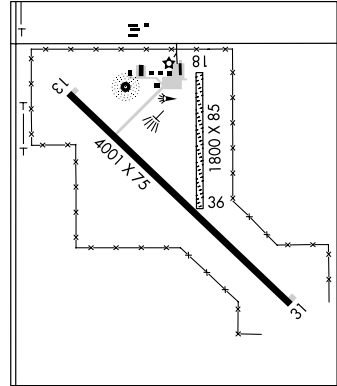
CHICAGO CENTER APP/DEP CON 118.9 (0200-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE ALO.

WATERLOO (H) VORTACW 112.2 ALO Chan 59 N42°33.39' W92°23.94' 062° 20.2 NM to fld. 865/6E.

HIWAS.

NDB (MHW) 260 OLZ N42°41.05' W91°58.58' at fld. NOTAM FILE OLZ.



OMAHA N41°10.04' W95°44.20'

OMAHA

(H) VORTAC 116.3 OVR Chan 110 311° 10.8 NM to Eppeley Airfield. 1300/8E.

H-5C, L-101, 121

HIWAS.

RCO 122.1R 116.3T (FORT DODGE RADIO)

RCO 122.35 (COLUMBUS RADIO)

ONAWA MUNI (K36) 1 SW UTC-6(-5DT) N42°00.29' W96°06.25'

OMAHA

1047 NOTAM FILE FOD

L-121

RWY 15-33: H3400X60 (CONC) S-4 MIRL

RWY 15: REIL. PAPI(P2L)-GA 3.0° TCH 26'. Trees.

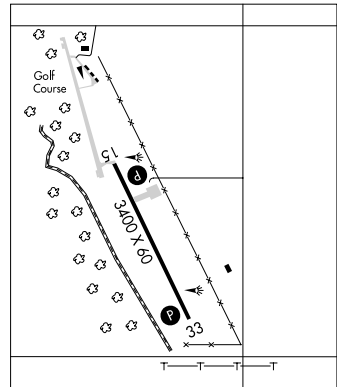
RWY 33: REIL. PAPI(P2L)-GA 3.0° TCH 26'. P-line.

AIRPORT REMARKS: Unattended. Rwy 33 p-line marked with orange balls. Rwy 33 is calm wind rwy. ACTIVATE MIRL Rwy 15-33, PAPI and REIL Rwy 15 and 33—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.

SIOUX CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67' W96°19.42' 145° 22.6 NM to fld. 1087/9E. **HIWAS.**



ORANGE CITY MUNI (ORC) 1 S UTC-6(-5DT) N42°59.42' W96°03.77'

OMAHA

1414 B FUEL 100LL, JET A NOTAM FILE ORC

L-121

RWY 16-34: H4250X60 (CONC) S-28, D-48 MIRL 0.5% up NW

IAP

RWY 16: REIL. VASI(V2L). Tree.

RWY 34: REIL. VASI(V2L). Road.

AIRPORT REMARKS: Attended 1400-2300Z+. Rotating bcn OTS indef.

ACTIVATE MIRL Rwy 16-34, VASI and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 127.825 (712) 737-3193.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.1

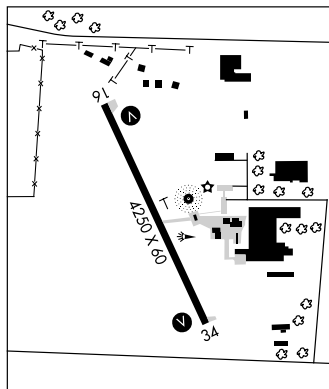
RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.

SIOUX CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67'

W96°19.42' 008° 40.4 NM to fld. 1087/9E. HIWAS.

NDB (MHW) 521 ORC N42°59.48' W96°03.64' at fld.

NOTAM FILE ORC.



OSAGE MUNI (DØ2) 1 NE UTC-6(-5DT) N43°17.54' W92°47.73'

CHICAGO

1168 NOTAM FILE FOD

L-121

RWY 17-35: H3400X50 (ASPH) MIRL

RWY 17: Road. RWY 35: P-line.

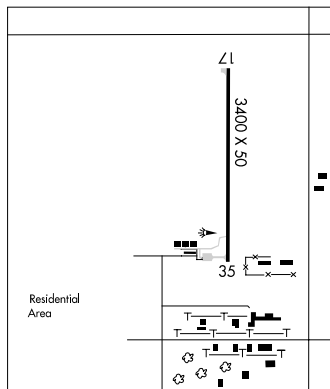
AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MCW.

MASON CITY (H) VORTACW 114.9 MCW Chan 96 N43°05.69'

W93°19.79' 057° 26.3 NM to fld. 1210/6E.



OSCEOLA MUNI (I75) 4 NE UTC-6(-5DT) N41°03.13' W93°41.38'OMAHA
L-121, 27A
IAP

1110 B FUEL 100LL, JET A NOTAM FILE I75.

RWY 18-36: H4000X75 (CONC) S-12.5 MIRL

RWY 18: REIL PAPI(P2L). Road.

RWY 36: REIL PAPI(P2L). Tree.

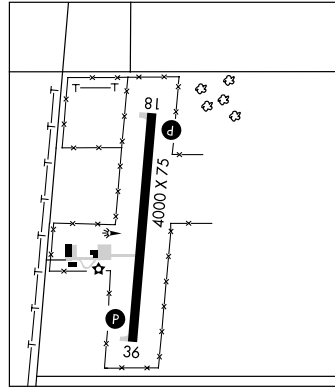
AIRPORT REMARKS: Attended continuously. Ultralight activity on and in/ov arpt. Rwy 18 is calm wind rwy. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.975 (641) 342-1422.**COMMUNICATIONS:** CTAF/UNICOM 122.8

DES MOINES APP/DEP CON 135.2

RADIO AIDS TO NAVIGATION: NOTAM FILE DSM.

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22' W93°38.92' 178° 23.2 NM to fld. 940/7E. HIWAS.

**OSKALOOSA MUNI** (OOA) 9 SE UTC-6(-5DT) N41°13.57' W92°29.63'CHICAGO
L-27A
IAP

841 B S4 FUEL JET A OX 1 NOTAM FILE OOA.

RWY 13-31: H4012X75 (CONC) S-25 MIRL

RWY 13: REIL. PAPI(P2L). RWY 31: REIL. PAPI(P2L).

RWY 04-22: H1926X75 (CONC) S-25

AIRPORT REMARKS: Attended May-Sep 1300-0100Z†, Oct-Apr 1300-2300Z†. Radio controlled model acft in/ov arpt. ACTIVATE MIRL Rwy 13-31, REIL Rwy 13 and Rwy 31—CTAF.

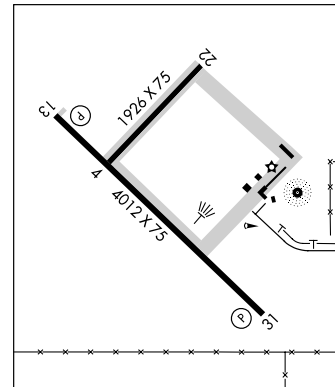
WEATHER DATA SOURCES: AWOS-3 118.625 (641) 933-4312.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CHICAGO CENTER APP/DEP CON 118.15

RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

OTTUMWA (L) VORW/DME 111.6 OTM Chan 53 N41°01.75' W92°19.56' 321° 14.1 NM to fld. 820/6E. HIWAS.

NDB (MHW) 414 OOA N41°13.53' W92°29.24' at fld.
NOTAM FILE OOA.



OTTUMWA RGNL (OTM) 5 NW UTC-6(-5DT) N41°06.40' W92°26.88'

CHICAGO

845 B S4 **FUEL** 100LL, JET A OX 1, 2 NOTAM FILE OTM

H-5D, L-27A

RWY 13-31: H5885X150 (ASPH-CONC) S-80, D-105, ST-133, DT-175 HIRL

IAP, AD

RWY 13: ODALS. REIL. VASI(V4L)—GA 3.0° TCH 41'.

RWY 31: MALSR.

RWY 04-22: H5178X200 (ASPH) S-42, D-65, ST-83, DT-120
MIRL

RWY 04: VASI(V4L)—GA 3.0° TCH 45'. Tree.

RWY 22: VASI(V4L)—GA 3.0° TCH 49'. Tree.

AIRPORT REMARKS: Attended 1300-0200Z†. For attendant after hrs call 641-683-3226. Skydiving in/ovf arpt. Ultralight activity on and in/ovf arpt Mon-Fri 2200Z† to one half hour after sunset, Sat, Sun and holidays SR to one half hour after SS. Rwy 31 is preferred calm wind rwy. Oxygen avbl dalgt hrs only. Line-of-sight vision blocked between Rws 22 and 31. Twy A from intersection Rwy 04-22 and Rwy 13-31 to AER 13 36' wide. ACTIVATE MALSR Rwy 31, HIRL Rwy 13-31; MIRL Rwy 04-22, VASI Rwy 04, Rwy 22 and Rwy 13 and ODALS Rwy 13 and REIL Rwy 13—CTAF.

WEATHER DATA SOURCES: ASOS 124.175 (641) 684-9164. **HIWAS** 111.6 OTM.

COMMUNICATIONS: CTAF/UNICOM 123.0

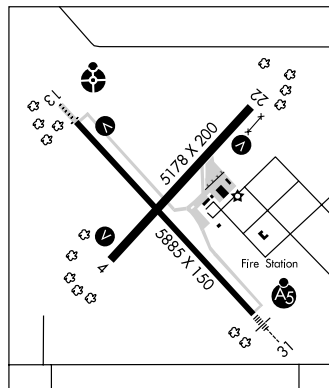
RCO 122.4 (FORT DODGE RADIO)

® **CHICAGO CENTER APP/DEP CON** 118.15

RADIO AIDS TO NAVIGATION: NOTAM FILE OTM.

(L) **VOR/DME** 111.6 OTM Chan 53 N41°01.75' W92°19.56' 304° 7.2 NM to fld. 820/6E. **HIWAS**.

ILS 109.5 I-OTM Rwy 31. Class IT. ILS unmonitored. Localizer backcourse unusable byd 16 NM.



PAULLINA MUNI (1Y9) 1 E UTC-6(-5DT) N42°59.29' W95°39.84'

OMAHA

1385 **FUEL** 100LL NOTAM FILE FOD

RWY 17-35: H2800X28 (ASPH-TURF) LIRL (NSTD)

RWY 17: Tree. **RWY 35:** Road.

AIRPORT REMARKS: Unattended. For fuel call 712-448-2522. Rwy 17-35 28' asph in center of 120' wide turf strip. Rwy 17-35 NSTD LIRL rwy lgts 60' from centerline. ACTIVATE LIRL Rwy 17-35—CTAF.

COMMUNICATIONS: CTAF 122.9

PELLA MUNI (PEA) 1 W UTC-6(-5DT) N41°24.07' W92°56.75'

CHICAGO

885 B S4 **FUEL** 100LL, JET A TPA—1701(816) NOTAM FILE PEA

H-5D, L-121, 27A

RWY 16-34: H5403X75 (CONC) MIRL 0.3% up NW

IAP

RWY 16: REIL. PAPI(P2L)—GA 3.3° TCH 37'. Thld dsplcd 200'. Tree.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 31'. Thld dsplcd 200'. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 16: TORA-5400 TODA-5400 ASDA-5200 LDA-5000

RWY 34: TORA-5400 TODA-5400 ASDA-5200 LDA-5000

AIRPORT REMARKS: Attended Mon-Sat 1300Z†-dusk, Sun 1800-2300Z†. On call after hrs, contact arpt manager on 641-628-9393. Deer on and in/ovf arpt. MIRL Rwy 16-34 preset low ints, to increase ints and ACTIVATE PAPI and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.875 (641) 628-3459.

COMMUNICATIONS: CTAF/UNICOM 122.8

® **DES MOINES APP/DEP CON** 123.9

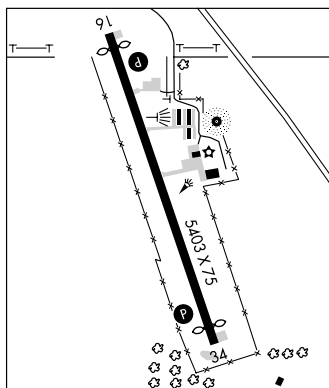
RADIO AIDS TO NAVIGATION: NOTAM FILE TNU.

NEWTON (L) VOR/DME 112.5 TNU Chan 72 N41°47.03'

W93°06.54' 159° 24.1 NM to fld. 980/3E.

NDB (MHW) 257 PEA N41°24.27' W92°56.68' at fld.

NOTAM FILE PEA.



PERRY MUNI (PRO) 3 W UTC-6(-5DT) N41°49.68' W94°09.59'

OMAHA

1013 B S4 FUEL 100LL, JET A NOTAM FILE FOD

L-121

RWY 14-32: H4001X75 (CONC) S-28, D-48 MIRL

IAP

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 27'. P-line.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Brush.

RWY 04-22: 2322X237 (TURF) 0.7% up SW

RWY 22: Trees.

AIRPORT REMARKS: Attended Apr-Sep, Mon-Sat 1400-0000Z†, Sun 1400-2200Z†, Oct-Mar, Mon-Sat 1400-2300Z†, Sun 1500-2100Z†. Unattended Thanksgiving, Christmas Day, New Years Day and Easter Sunday. Parachute Jumping. Rwy 04-22 has badger holes. Rwy 04-22 no snow removal. ACTIVATE MIRL Rwy 14-32, PAPI Rwy 14 and Rwy 32 and REIL Rwy 14 and Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.0 (515) 465-2269.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ DES MOINES APP/DEP CON 135.2

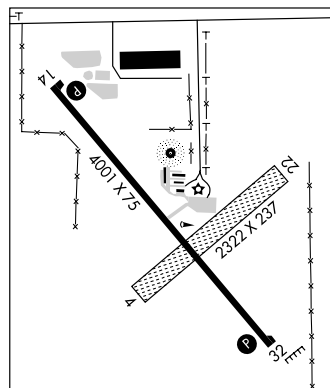
RADIO AIDS TO NAVIGATION: NOTAM FILE DSM

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22'

W93°38.92' 309° 32.8 NM to fld. 940/7E. HIWAS.

NDB (MHW) 251 PRO N41°49.83' W94°09.60' at fld.

NOTAM FILE FOD.



PILOT ROCK N42°43.91' W95°33.19' NOTAM FILE FOD.

OMAHA

NDB (MHW) 423 CKP at Cherokee Co RGNL.

L-121

POCAHONTAS MUNI (POH) 1 NE UTC-6(-5DT) N42°44.57' W94°38.84'

OMAHA

1226 B FUEL 100LL, MOGAS NOTAM FILE FOD

L-121

RWY 11-29: H4100X60 (CONC) S-15 MIRL

IAP

RWY 11: REIL. PAPI(P2L)—GA 3.2° TCH 30'. Tree.

RWY 29: REIL. VASI(V2L)—GA 3.0°. Road.

RWY 18-36: 1998X135 (TURF)

RWY 18: Road.

AIRPORT REMARKS: Unattended. For svcs call sheriff's office 712-335-3308. Rwy 29 is calm wind rwy. Rwy 18-36 marked with yellow cones. REIL Rwy 11 OTS indef. REIL Rwy 29 OTS indef. ACTIVATE MIRL Rwy 11-29, PAPI Rwy 11, VASI Rwy 29 and REIL, Rwy 11 and Rwy 29—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8.

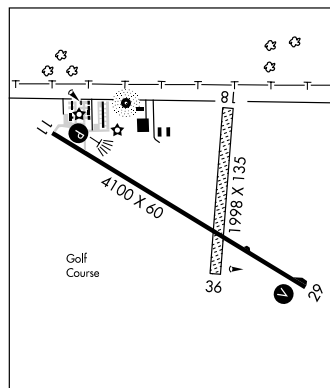
MINNEAPOLIS CENTER APP/DEP CON 134.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 290° 17.5 NM to fld. 1164/7E. HIWAS.

NDB (MHW) 428 POH N42°44.78' W94°38.95' at fld.



PORT CITY N41°21.98' W91°08.94' NOTAM FILE MUT.

CHICAGO

(L) VOR/DME 116.5 DDD Chan 112 at Muscatine Muni. 540/1E. DME unusable 181°-024° byd 25 NM.

L-27B

POSTVILLE

DALE DELIGHT (Y16) 2 SW UTC-6(-5DT) N43°04.73' W91°36.91'

CHICAGO

1200 NOTAM FILE FOD

RWY 11-29: 2325X70 (TURF)

RWY 29: Road.

AIRPORT REMARKS: Unattended. Rwy 11-29 abrupt drop-off at Rwy 11 thld. No snow removal—call 563-864-3256 for arpt conditions. Rwy 11-29 marked with yellow cones along rwy edges and at thlds.

COMMUNICATIONS: CTAF 122.9

PRICE N42°37.33' W92°30.57' NOTAM FILE ALO.

CHICAGO

NDB (LOM) 382 AL 126° 6.2 NM to Waterloo Rgnl.

PRIMGHAR (2YØ) 1 E UTC-6(-5DT) N43°04.68' W95°36.86'

OMAHA

1481 NOTAM FILE FOD

RWY 17-35: 1985X105 (ASPH-TURF) LIRL

RWY 17: Pole. RWY 35: Fence.

AIRPORT REMARKS: Unattended. No phone avbl at arpt. Rwy 17-35 the N 855' by 20' center portion of rwy length is asph. Rwy 17-35 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

PUFF N43°21.09' W94°44.27' NOTAM FILE EST.

OMAHA

NDB (MHW) 345 PUF 350° 3.4 NM to Estherville Muni.

L-121

NDB unusable 330°-120° byd 15 NM.

RADCLIFFE

DRAKE (2Y1) 1 E UTC-6(-5DT) N42°19.00' W93°25.01'

OMAHA

1179 NOTAM FILE FOD

RWY 08-26: 2480X90 (TURF) LIRL (NSTD)

RWY 08: Trees.

AIRPORT REMARKS: Unattended. Winter months, call 515-899-2169 for arpt conditions. Rwy 08-26 NSTD LIRL; solid clear; thld lgts solid green. ACTIVATE LIRL Rwy 08-26-122.8.

COMMUNICATIONS: CTAF/UNICOM 122.8

RED OAK MUNI (RDK) 2 W UTC-6(-5DT) N41°00.65' W95°15.53'

OMAHA

1045 B S2 FUEL 100LL, JET A NOTAM FILE RDK

H-5C, L-10J, 121

RWY 05-23: H5100X75 (CONC) MIRL

IAP

RWY 05: REIL. PVASI(PSIL)-GA 3.0° TCH 26'. Thld dsplcd 1000'.

Railroad.

RWY 23: REIL. PVASI(PSIL)-GA 3.0° TCH 33'. Trees.

RWY 17-35: H2901X60 (CONC) S-25 MIRL

RWY 17: SAVASI(S2L)-GA 3.0° TCH 44'. Road.

RWY 35: SAVASI(S2L)-GA 3.0° TCH 44'. P-line.

RWY 13-31: 2050X210 (TURF)

RWY 13: Road. RWY 31: Pole.

AIRPORT REMARKS: Attended 1400-2300Z+. Rwy 13-31 CLOSED Nov-Apr. CAUTION: Ultralights on and invof arpt. Rwy 23 is calm wind rwy. Rwy 13-31 ends and sides marked with yellow cones. ACTIVATE MIRL Rwy 17-35 and Rwy 05-23, PVASI Rwy 05 and Rwy 23, REIL Rwy 05 and Rwy 23 and SAVASI Rwy 17 and Rwy 35-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.775 (712) 623-3220.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ OMAHA APP/DEP CON 124.5

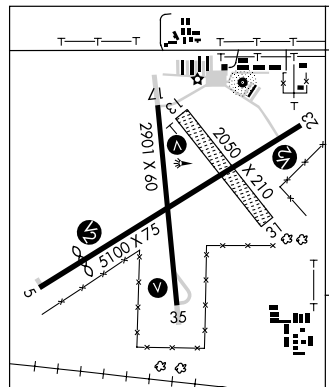
GCO 121.725 (six times for FORT DODGE FLIGHT SERVICES CLNC DEL.) OTS indef.

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

OMAHA (H) VORTAC 116.3 OVR Chan 110 N41°10.04' W95°44.20' 105° 23.6 NM to fld. 1300/8E.

HIWAS.

NDB (MHW) 230 RDK N41°00.92' W95°15.34' at fld. NOTAM FILE RDK. Unmonitored.



ROCK RAPIDS MUNI (RRQ) 2 NW UTC-6(-5DT) N43°27.13' W96°10.79'

OMAHA

1363 B S4 FUEL 100LL NOTAM FILE FOD

L-121

RWY 16-34: H3097X50 (ASPH) S-8 MIRL

IAP

RWY 16: PAPI(P2L)—GA 3.0° TCH 25'. Thld dsplcd 300'. Tree.

RWY 34: PAPI(P2L)—GA 3.0° TCH 26'. Thld dsplcd 300'.

AIRPORT REMARKS: Attended Mon-Fri 1500-2300Z†, Sat 1500-1800Z†. For after hrs call 712-472-2643. Rwy 34 is calm wind rwy. ACTIVATE MIRL Rwy 16-34, PAPI Rwy 16 and 34—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

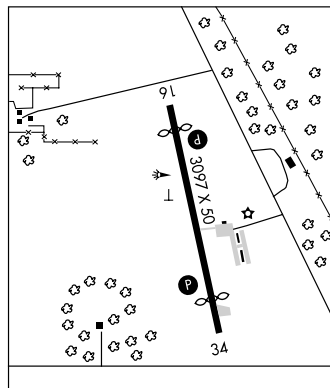
SIOUX FALLS APP/DEP CON 126.9 (1100-0600Z†)

MINNEAPOLIS CENTER APP/DEP CON 132.05 (0600-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE OTG.

WORTHINGTON (L) VOR/DME 110.6 OTG Chan 43 N43°38.82'

W95°34.92' 238° 28.6 NM to fld. 1571/8E.

**ROCKWELL CITY MUNI** (2Y4) 1 SE UTC-6(-5DT) N42°23.27' W94°37.12'

OMAHA

1217 FUEL 100LL NOTAM FILE FOD

L-121

RWY 12-30: H3500X60 (CONC) MIRL

RWY 12: Thld dsplcd 1200'. Building. RWY 30: Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 12: TORA-3500 TODA-3500 ASDA-3500 LDA-2300

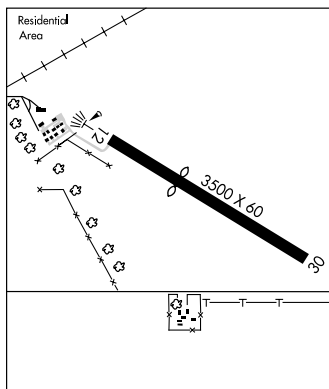
RWY 30: TORA-3500 TODA-3500 ASDA-3500 LDA-3500

AIRPORT REMARKS: Unattended. For fuel call Police at 712-297-7583. Radio controlled acft invof arpt. For MIRL Rwy 12-30 key 122.8 3 times high ints only.

COMMUNICATIONS: CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 220° 19.6 NM to fld. 1164/7E. HIWAS.



SAC CITY MUNI (SKI) 3 S UTC-6(-5DT) N42°22.75' W94°58.78'

OMAHA

1250 B FUEL 100LL NOTAM FILE FOD

L-121

RWY 18-36: H4100X75 (CONC) MIRL

IAP

RWY 18: PVASI(P SIL)—GA 3.0° TCH 11'. Road.

RWY 36: REIL. PVASI(P SIL)—GA 3.0° TCH 14'. P-line.

RWY 14-32: H2350X60 (CONC) S-12.5 MIRL 0.6% up NW

RWY 14: VASI(V2L)—GA 3.0° TCH 37'.

RWY 32: VASI(V2L)—GA 3.0° TCH 36'.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z†. Line of sight problems exist between Rwy 36 and Rwy 14-32. Rwy 36 is calm wind rwy. Rotating bcn OTS indef. Rwy 14 VASI OTS indef. Rwy 32 VASI OTS indef. ACTIVATE MIRL Rwy 14-32 and Rwy 18-36; VASI Rwy 14 and Rwy 32; PVASI Rwy 18 and Rwy 36; REIL Rwy 36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 134.0

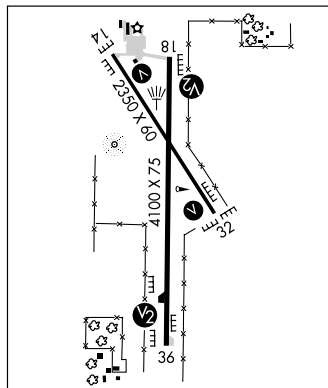
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82

N42°36.67' W94°17.69' 239° 33.4 NM to fld.

1164/7E. HIWAS.

NDB (MHW) 356 SKI N42°22.83' W94°58.95' at fld.

**SALIX** N42°19.65' W96°17.42' NOTAM FILE SUX.

OMAHA

NDB (MHW/LOM) 414 SU 310° 6.1 NM to Sioux Gateway/Col Bud Day Fld. Unmonitored.

L-11B

SCHENCK FLD (See CLARINDA)**SHELDON MUNI** (SHL) 2 NE UTC-6(-5DT) N43°12.50' W95°50.01'

OMAHA

1419 B S4 FUEL 100LL, JET A NOTAM FILE SHL

L-121

RWY 15-33: H4199X75 (CONC) S-28 MIRL

IAP

RWY 15: REIL. VASI(V2R)—GA 3.0° TCH 44'. Road.

RWY 33: REIL. VASI(V2L)—GA 3.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1330-2300Z†, Sat-Sun on call. For svc after hrs call 712-324-4005/3626. Rwy 33 is calm wind rwy. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 15-33 and VASI Rwy 15 and Rwy 33 and REIL Rwy 15 and Rwy 33—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.775 (712) 324-5159.**COMMUNICATIONS:** CTAF/UNICOM 122.8

SPENCER RCO 122.15 (FORT DODGE RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE SPW.

SPENCER (L)VORW/DME 110.0 SPW Chan 37 N43°09.73'

W95°12.06' 271° 27.9 NM to fld. 1330/5E.

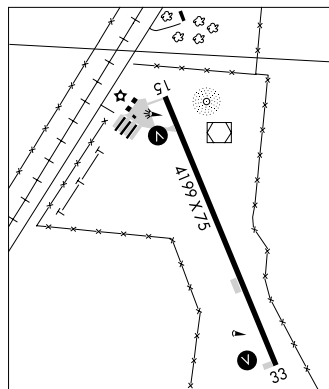
(T)VORW/DME 108.6 DDL Chan 23 N43°12.73' W95°50.04'

at fld. 1417/5E. NOTAM FILE SHL. VOR/DME OTS indefly.

SHUTDOWN.

NDB (MHW) 338 SHL N43°12.85' W95°50.03' at fld.

NOTAM FILE SHL. NDB unmonitored.



SHENANDOAH MUNI (SDA) 3 SW UTC-6(-5DT) N40°45.10' W95°24.82'

OMAHA

971 B FUEL 100LL, JET A NOTAM FILE SDA

H-5C, L-10J

RWY 04-22: H5000X75 (CONC) S-30, D-38 MIRL

IAP

RWY 04: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 22: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Tree.

RWY 12-30: H3299X75 (CONC) S-4 LIRL 0.5% up SE

RWY 12: Trees.

RWY 30: VASI(V4L)—GA 3.5° TCH 32'. Tree.

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z. For attendant after hrs call 712-246-2400. Rwy 12 has loose stones on first 1135' of rwy. Rwy 22 is calm wind rwy. ACTIVATE MIRL Rwy 04-22, PAPI Rwy 04, and Rwy 22, VASI Rwy 30, REIL Rwy 04 and Rwy 22 —CTAF.

WEATHER DATA SOURCES: AWOS-3 125.525 (712) 246-4021.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ OMAHA APP/DEP CON 124.5

RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

OMAHA (H) VORTAC 116.3 OVR Chan 110 N41°10.04' W95°44.20' 141° 29.0 NM to fld. 1300/8E.
HIWAS.

NDB (MHW) 411 SDA N40°45.10' W95°24.45' at fld. NOTAM FILE SDA.

SIBLEY MUNI (ISB) 2 S UTC-6(-5DT) N43°22.17' W95°45.59'

OMAHA

1538 S4 FUEL 100LL, JET A NOTAM FILE FOD

L-121

RWY 17-35: H2987X50 (CONC) S-28, D-48 LIRL (NSTD) 0.5% up N

IAP

RWY 17: PAPI(P2L)—GA 3.0° TCH 31'. Road.

RWY 35: PAPI(P2L)—GA 3.0° TCH 20'. Trees.

AIRPORT REMARKS: Attended 1200-0000Z. For attendant after hrs—712-754-3467. Rwy 35 is calm wind rwy. Rwy 17-35 NSTD LIRL have 6 thld lgts each. ACTIVATE LIRL Rwy 17-35 and PAPI Rwy 17 and Rwy 35—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 132.05

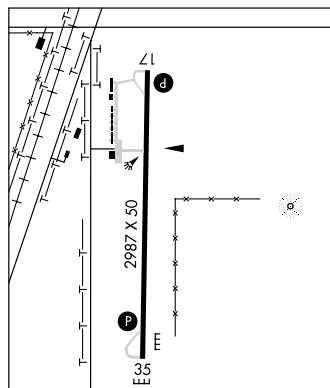
RADIO AIDS TO NAVIGATION: NOTAM FILE OTG.

WORTHINGTON (L) VOR/DME 110.6 OTG Chan 43 N43°38.82'

W95°34.92' 197° 18.4 NM to fld. 1571/8E.

NDB (MHW) 269 ISB N43°22.08' W95°45.15' at fld.

NOTAM FILE FOD. Unmonitored SS-SR.

**SIG FLD** (See MONTEZUMA)**SIOUX CENTER MUNI** (SOY) 3 N UTC-6(-5DT) N43°08.07' W96°11.25'

OMAHA

1448 S2 FUEL 100LL NOTAM FILE FOD

L-121

RWY 18-36: H3802X50 (CONC) MIRL

IAP

RWY 18: Railroad. RWY 36: Road.

AIRPORT REMARKS: Attended Mon-Fri 1400-2336Z. Sat 1400-1800Z. Rwy 36 lighted +80' silo at 700' and 321' left of centerline extended. Rwy 18-36 NSTD MIRL, lgts 30' from pavement edge. ACTIVATE MIRL Rwy 18-36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.1

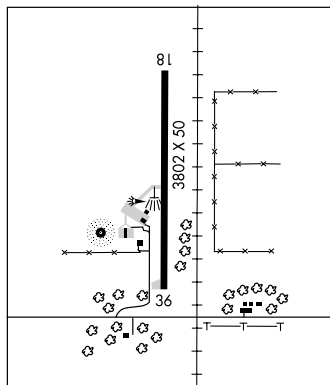
RADIO AIDS TO NAVIGATION: NOTAM FILE FSD.

SIOUX FALLS (H) VORTACW 115.0 FSD Chan 97 N43°38.97'

W96°46.87' 131° 40.4 NM to fld. 1570/9E. HIWAS.

NDB (MHW) 368 SOY N43°07.98' W96°11.39' at fld.

NOTAM FILE FOD. NDB unmonitored.



SIoux CITY N42°20.67' W96°19.42' NOTAM FILE SUX OMAHA
 (L) VORTAC 116.5 SUX Chan 112 313° 4.4 NM to Sioux Gateway/Col Bud Day Fld. 1087/9E. HIWAS. L-121
 VOR unusable:
 280°–292° byd 25 NM 306°–350° byd 20 NM blo 3,000'
 293°–305° byd 20 NM blo 4,500' 350°–280° byd 30 NM blo 3,000'
 293°–305° byd 35 NM
 RCO 122.45 122.1R 116.5T (FORT DODGE RADIO)

SIoux CITY

SIoux GATEWAY/COL BUD DAY FLD (SUX) 6 S UTC–6(–5DT) N42°24.16' W96°23.06' OMAHA
 1098 B S4 FUEL 100LL, 115, JET A OX 1, 2, 3, 4 Class I, ARFF Index—See Remarks H–5C, L-121
 NOTAM FILE SUX IAP, AD

Rwy 13–31: H9002X150 (CONC–GRVD) S–100, D–120, ST–152, DT–220 HIRL
Rwy 13: MALS. VASI(V4L)—GA 3.0° TCH 49'. Tree.
Rwy 31: MALS. VASI(V4L)—GA 3.0° TCH 50'.
Rwy 17–35: H6600150 (ASPH–PFC) S–65, D–80, ST–102, DT–130 MIRL
Rwy 17: REIL. VASI(V4R)—GA 3.0° TCH 50'. Trees.
Rwy 35: PAPI(P4L)—GA 3.0° TCH 54'. Pole.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
Rwy 13	17–35	5400
Rwy 17	13–31	5650

ARRESTING GEAR/SYSTEM

Rwy 13 ←BAK–14 BAK–12B(B) (1392')
 BAK–14 BAK–12B(B) (1492') →**Rwy 31**

AIRPORT REMARKS: Attended continuously. PAEW 0330–1200Z during inclement weather Nov–Apr. AER 31–BAK–12/14 located (1492') from thld. Airfield surface conditions not monitored by arpt management between 0600–1000Z daily. Rwy 13–BAK–12/14 located (1392') from thld. All A–gear avbl only during ANG flying ops. Twr has limited visibility southeast of ramp near ARFF bldg and northeast of Rwy 31 touchdown zone. Rwy 31 is calm wind rwy. Class I, ARFF Index B. ARFF Index E fire fighting equipment avbl on request. Twy F unlit, retro-reflective markers in place. Portions of Twy A SE of Twy B not visible by twr and is designated a non-movement area. Rwy 13–31 touchdown and rollout rwy visual range avbl. When twr clsd, ACTIVATE HIRL Rwy 13–31; MIRL Rwy 17–35; MALS Rwy 13; MALS Rwy 31; and REIL Rwy 17—CTAF.

WEATHER DATA SOURCES: ASOS (712) 255–6474. **HIWAS** 116.5 SUX. **LAWRS.**

COMMUNICATIONS: CTAF 118.7 ATIS 119.45 **UNICOM** 122.95

SIoux CITY RCO 122.45 122.1R 116.5T (FORT DODGE RADIO)

Ⓡ **SIoux CITY APP/DEP CON** 124.6 (1200–0330Z)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 124.1 (0330–1200Z)

SIoux CITY TOWER 118.7 (1200–0330Z) **GND CON** 121.9

AIRSPACE: CLASS D svc 1200–0330Z other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE SUX.

SIoux CITY (L) VORTAC 116.5 SUX Chan 112 N42°20.67' W96°19.42' 313° 4.4 NM to fld. 1087/9E.

HIWAS.

NDB (MHW) 233 GAK N42°24.49' W96°23.16' at fld.

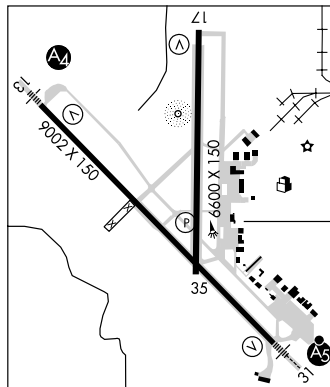
SALIX NDB (MHW/LOM) 414 SU N42°19.65' W96°17.42' 310° 6.1 NM to fld. Unmonitored.

TOMMI NDB (MHW/LOM) 305 OI N42°27.61' W96°27.73' 128° 4.9 NM to fld. Unmonitored.

ILS 109.3 I–SUX Rwy 31 Class IT. LOM **SALIX NDB.** ILS Unmonitored when twr clsd. Glide path unusable coupled approach (CPD) blo 1805'.

ILS 111.3 I–OIQ Rwy 13 LOM **TOMMI NDB.** Localizer shutdown when twr clsd.

ASR (1200–0330Z)



SNORE N43°13.96' W95°19.66' NOTAM FILE SPW.

NDB (LOM) 394 SP 121° 6.8 NM to Spencer Muni.

OMAHA

SOUTHEAST IOWA RGNL (See BURLINGTON)

SPENCER MUNI (SPW) 3 NW UTC-6(-5DT) N43°09.93' W95°12.17'

OMAHA

1339 B S4 FUEL 100LL, JET A NOTAM FILE SPW

H-5C, L-121

RWY 12-30: H6000X100 (CONC) S-30, D-50 MIRL

IAP

RWY 12: MALSR. VASI(V2L)—GA 3.0° TCH 47'.

RWY 30: REIL. VASI(V2L)—GA 3.0° TCH 27'. Thld dsplcd 500'. Road.

RWY 18-36: H5100X75 (CONC) S-30, D-50 MIRL

RWY 18: REIL. PAPI(P4L)—GA 3.0°.

RWY 36: REIL. PAPI(P4L)—GA 3.0°. Road.

AIRPORT REMARKS: Attended Mon-Fri 1300-0100Z±, Sat-Sun 1400-2300Z±. For attendant after hrs call

712-262-1002. Ultralight activity on and invof arpt. Waterfowl invof arpt. Rwy 12 is calm wind rwy. ACTIVATE

MIRL Rwy 12-30 and Rwy 18-36; MALSR Rwy 12; VASI Rwy 12 and Rwy 30; PAPI Rwy 18 and Rwy 36; REIL Rwy 30, Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: ASOS 126.625 (712) 262-8885.

COMMUNICATIONS: CTAF/UNICOM 123.0

MINNEAPOLIS CENTER APP/DEP CON 127.75

RCO 122.15 (FORT DODGE RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE SPW.

(L) VORW/DME 110.0 SPW Chan 37 N43°09.73' W95°12.06' at fld. 1330/5E.

LITTLE SIOUX NDB (MHW) 326 LTU N43°07.62' W95°07.96' 302° 3.9 NM to fld. Unmonitored.

SNORE NDB (LOM) 394 SP N43°13.96' W95°19.66' 121° 6.8 NM to fld.

ILS 110.9 I-SPW Rwy 12. LOM SNORE NDB. ILS unmonitored.

SPIRIT LAKE MUNI (ØF3) 3 SW UTC-6(-5DT) N43°23.25' W95°08.35'

OMAHA

L-121

1434 NOTAM FILE FOD

RWY 16-34: H3015X50 (ASPH) LIRL

RWY 16: REIL. Trees. RWY 34: Tree

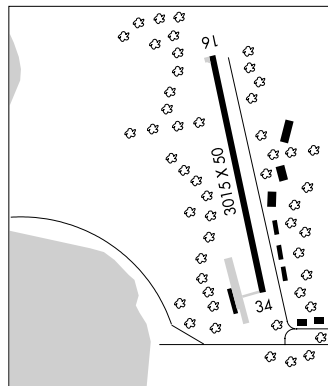
AIRPORT REMARKS: Attended May-Sep irregularly. Rwy 16 REIL pilot controlled lighting OTS indef; REIL on low ints continuously.

ACTIVATE REIL Rwy 16—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE SPW.

SPENCER (L) VORW/DME 110.0 SPW Chan 37 N43°09.73' W95°12.06' 006° 13.8 NM to fld. 1330/5E.



STORM LAKE MUNI (SLB) 3 SW UTC-6(-5DT) N42°35.84' W95°14.44'OMAHA
H-5C, L-121
IAP

1488 B S4 FUEL 100, JET A NOTAM FILE SLB

RWY 17-35: H5000X75 (CONC) S-30, D-38 MIRL

RWY 17: REIL. PAPI(P2L)—GA 3.0° TCH 27'.

RWY 35: PAPI(P2L)—GA 3.0° TCH 27'.

RWY 13-31: H3034X50 (CONC) S-4 MIRL 0.4% up NW

RWY 13: Thld dspcd 172'. Road.

RWY 06-24: 1855X90 (TURF)

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z†. For attendant after hours call 712-732-6301. Rwy 06-24 CLOSED winter months Nov thru Mar. Rwy 35 is calm wind rwy. Rwy 06-24 marked with yellow cones. ACTIVATE MIRL Rwy 13-31 and Rwy 17-35 and REIL Rwy 17 and Rwy 35—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.525 (712) 732-2301.**COMMUNICATIONS:** CTAF/UNICOM 122.7

MINNEAPOLIS CENTER APP/DEP CON 134.0

GCO 121.725 (FORT DODGE FSS) OTS indef.

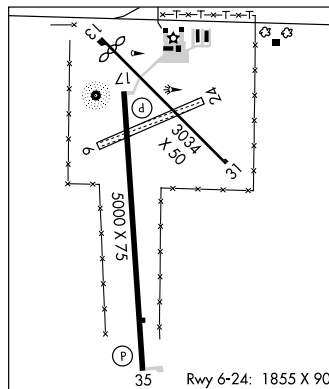
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 262° 41.9 NM to fld. 1164/7E. HIWAS.

NDB (MHW) 434 SLB N42°36.03' W95°14.66' at fld.

NOTAM FILE SLB.

**SULLY MUNI** (8C2) 0 S UTC-6(-5DT) N41°34.45' W92°50.80'

CHICAGO

922 NOTAM FILE FOD

RWY 08-26: 2130X120 (TURF)

RWY 08: Thld dspcd 195'. Tree.

RWY 26: Thld dspcd 915'. Tree.

AIRPORT REMARKS: Unattended. CLOSED winters due to snow. Rwy 08-26 thlds and edges marked with cones. Rwy 26 dspcd thld marked with cones.

COMMUNICATIONS: CTAF 122.9**SURFF** N43°03.15' W93°19.66' NOTAM FILE MCW.

OMAHA

NDB (LOM) 348 MC 356° 6.3 NM to Mason City Muni.

THE EASTERN IOWA (See CEDAR RAPIDS)**TIPTON****MATHEWS MEM** (8C4) 2 SW UTC-6(-5DT) N41°45.80' W91°09.18'

CHICAGO

840 FUEL 100LL NOTAM FILE FOD

RWY 11-29: H3000X60 (CONC) MIRL (NSTD)

RWY 11: Trees.

RWY 29: Road.

AIRPORT REMARKS: Attended on call. Rwy 29 is calm wind rwy. Rwy 11-29 NSTD MIRL, 20' from pavement edges.

COMMUNICATIONS: CTAF 122.9

① CEDAR RAPIDS APP/DEP CON 119.7 (1100-0530Z†)

CHICAGO CENTER APP/DEP CON 132.8 (0530-1100Z†)

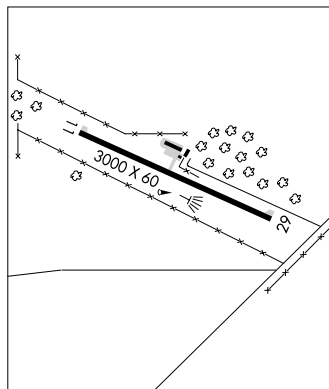
RADIO AIDS TO NAVIGATION: NOTAM FILE IOW.

IOWA CITY (H) VORTAC 116.2 IOW Chan 109 N41°31.14'

W91°36.80' 050° 25.4 NM to fld. 770/5E.

CEDAR RAPIDS (H) VORW/DME 114.1 CID Chan 88 N41°53.25'

W91°47.14' 099° 29.4 NM to fld. 870/5E. NOTAM FILE CID.



TOLEDO MUNI (8C5) 2 E UTC-6(-5DT) N41°59.29' W92°32.88'

CHICAGO

960 B TPA-1760(800) NOTAM FILE FOD

RWY 17-35: 1850X100 (TURF)

RWY 17: Pole. Tree.

RWY 35: Thld dsplcd 395'. Pole.

AIRPORT REMARKS: Unattended. Arpt CLOSED SS-SR. Rwy 35 marked with yellow cones, dsplcd thresholds marked with 3 yellow cones each side. 175' X 25' asph strip at the apch end of Rwy 17 used as twy.

COMMUNICATIONS: CTAF 122.9**TRAER MUNI** (8C6) 1 NE UTC-6(-5DT) N42°11.95' W92°27.48'

CHICAGO

892 NOTAM FILE FOD

RWY 17-35: 2555X100 (TURF) LIRL

RWY 17: Trees.

RWY 35: Tree. Rgt tfc.

AIRPORT REMARKS: Unattended. MOGAS and 100LL fuel avbl for emerg only, call 319-478-2154/2580. Snow removal delayed at times; confirm rwy condition prior to use call 319-478-2580 or 319-478-2154. Turf rwy soft during spring thaw. Rwy 17-35 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9**UNION CO** N40°57.45' W94°20.84' NOTAM FILE CSQ.

OMAHA

NDB(MHW) 379 UNE 345° 3.9 NM to Creston Muni.

L-10J, 121

VINTON VETERANS MEM AIRPARK (VTI) 3 N UTC-6(-5DT) N42°13.12' W92°01.56'

CHICAGO

842 B S2 FUEL 100LL NOTAM FILE VTI

RWY 09-27: H4000X60 (CONC) MIRL 0.4% up E

RWY 09: REIL. PAPI(P2L)-GA 4.0°. Trees.

RWY 27: REIL. PAPI(P2L)-GA 3.0°. Pole.

RWY 16-34: H2500X50 (ASPH) S-12.5

RWY 34: Thld dsplcd 190'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z†. Self-Serve fuel avbl 24 hrs. Parachute Jumping. Rwy 16-34 CLOSED ngts and used as taxiway from Rwy 09-27 to ramp, taxiway edge lgts 30' from pavement edges. MIRL Rwy 09-27 preset on low ints, to increase ints and ACTIVATE PAPI Rwy 09 and Rwy 27 and REIL Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.075 (319) 472-3122.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CEDAR RAPIDS APP/DEP CON 134.05 (1100-0530Z†)

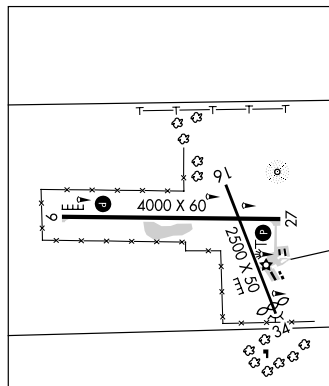
CHICAGO CENTER APP/DEP CON 132.8 (0530-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE CID.

CEDAR RAPIDS (H) VORW/DME 114.1 CID Chan 88 N41°53.25'

W91°47.14' 327° 22.6 NM to fld. 870/5E.

GARRISON NDB (MHW) 338 VTI N42°13.30' W92°01.21' at fld. NOTAM FILE VTI.

**WAPSIE** N42°27.13' W91°57.06' NOTAM FILE IIB.

CHICAGO

NDB (MHW) 206 IIB at Independence Muni.

L-28F

WASHINGTON MUNI (AWG) 2 SE UTC-6(-5DT) N41°16.50' W91°40.51'

CHICAGO

754 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE AWG

L-27B

RWY 18-36: H4000X75 (CONC-WC) MIRL

IAP

RWY 18: REIL. PAPI(P2R)—GA 3.0° TCH 20'. Twr.

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 24'.

RWY 13-31: H3401X50 (CONC) S-28 MIRL (NSTD)

RWY 13: Twr. RWY 31: Thld dspcd 335'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z. Fuel avbl 24 hrs by credit card. Rwy 36 is calm wind rwy. Rwy 13-31 NSTD MIRL, edge lghts 20' from pavement edge. ACTIVATE MIRL Rwy 13-31 (med inst only) MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 127.825 (319) 653-4149.

COMMUNICATIONS: CTAF/UNICOM 122.7

CHICAGO CENTER APP/DEP CON 135.6

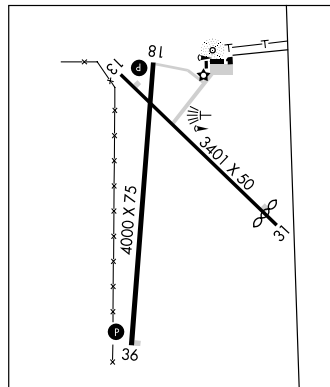
GCO 121.725 (FORT DODGE RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE IOW.

IOWA CITY (H) VORTAC 116.2 IOW Chan 109 N41°31.14'

W91°36.80' 186° 14.9 NM to fld. 770/5E.

NDB (MHW) 219 AWG N41°16.79' W91°40.37' at fld. NOTAM FILE AWG. Unmonitored.



WATERLOO RGNL (ALO) 4 NW UTC-6(-5DT) N42°33.43' W92°24.02'

CHICAGO

873 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 ARFF Index—See Remarks NOTAM FILE ALO H-5D, L-28F

IAP, AD

RWY 12-30: H8400X150 (ASPH-GRVD) S-55, D-75, ST-95, DT-140 HIRL

RWY 12: MALSR. PAPI(P4L)—GA 3.0° TCH 57'. Tree.

RWY 30: MALS. VASI(V4L)—GA 3.0° TCH 52'.

RWY 18-36: H6002X150 (ASPH-GRVD) S-50, D-75, ST-95, DT-180 MIRL

RWY 18: REIL. VASI(V4L)—GA 3.0° TCH 42'. Tree.

RWY 36: REIL. VASI(V4L)—GA 3.0° TCH 40'. Tree.

RWY 06-24: H5403X129 (ASPH-GRVD) S-29.5, D-37 MIRL

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 47'. Tree.

RWY 24: REIL. VASI(V4L)—GA 3.0° TCH 52'. Tree.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 06	12-30	3900
RWY 12	06-24	6100
RWY 18	06-24	4850
RWY 24	18-36	3950
RWY 30	18-36	4800
RWY 36	12-30	3650

AIRPORT REMARKS: Attended 1100-0400Z. Fuel available on request

0400 1100Z. Fee for service. Class I, ARFF Index A. CLOSED to unscheduled air carrier ops with more than 30 passenger seats

0500-1200Z except 72 hours PPR arpt manager. Call arpt manager 319-291-4483. ARFF Index B provided, ARFF Index C avbl on 72 hrs request. Birds on and in/ov arpt. Fuel available on request 0400-1100Z, fee for service. When departing all rwys, ends of other rwys not visible. Personnel and equipment performing snow removal ops will monitor CTAF. When ATCT clsd and during snow events, all arrival/departure acft announce their intentions on CTAF 5 min prior to using the runways. From ATCT Twy C not visible at Twy C and Rwy 18 intersection. Rwy 30 is calm wind rwy. Rwy 06-24 lighting unavailable during hours twr clsd. When twr clsd ACTIVATE HIRL Rwy 12-30; and MIRL Rwy 18-36; MALSR Rwy 12; MALS Rwy 30, VASI Rwy 06, 24, 18 and 36—CTAF.

WEATHER DATA SOURCES: ASOS (319) 233-8984. HIWAS 112.2 ALO.

COMMUNICATIONS: CTAF 125.075 ATIS 120.65 UNICOM 122.95

RCO 122.05 (FORT DODGE RADIO)

Ⓡ APP/DEP CON 118.9 126.75 (1200-0200Z)

CHICAGO CENTER APP/DEP CON 118.9 (0200-1200Z)

TOWER 125.075 (1200-0200Z) GND CON 121.9

AIRSPACE: CLASS D svc 1200-0200Z other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ALO.

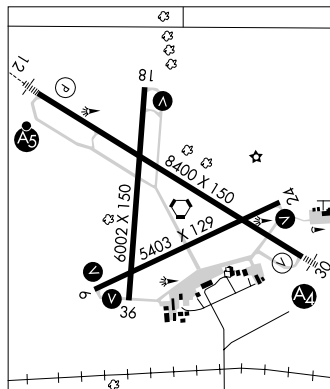
(H) VORTACW 112.2 ALO Chan 59 N42°33.39' W92°23.94' at fld. 865/6E. HIWAS.

VOR portion unusable 351°-010°. VOR portion unusable byd 35 NM blo 2,500'.

PRICE NDB (LOM) 382 AL N42°37.33' W92°30.57' 126° 6.2 NM to fld.

ILS/DME 111.7 I-ALO Chan 54 Rwy 12 Class IB. LOM PRICE NDB. ILS unmonitored when twr clsd.

Backcourse unusable beyond 15 NM blo 2500'.



WAUKON N43°16.81' W91°32.24' NOTAM FILE FOD.
 (L) VORTAC 116.6 UKN Chan 113 084° 3.0 NM to Waukon Muni. 1288/5E.
 RCO 122.1R 116.6T (FORT DODGE RADIO)

CHICAGO

L-286

WAUKON MUNI (Y01) 1 NE UTC-6(-5DT) N43°16.83' W91°28.17'

CHICAGO

1281 FUEL 100LL NOTAM FILE FOD

RWY 07-25: H2413X60 (ASPH) LIRL 0.9% up W

RWY 07: REIL. Sign. RWY 25: Fence.

AIRPORT REMARKS: Unattended. Rwy 07-25 ruts and loose rock. REIL Rwy 07-25 OTS indef. ACTIVATE LIRL Rwy 07-25, REIL Rwy 07—CTAF.

COMMUNICATIONS: CTAF 122.9

WAVERLY MUNI (C25) 2 NW UTC-6(-5DT) N42°44.52' W92°30.48'

CHICAGO

992 B S3 FUEL 100LL NOTAM FILE FOD

RWY 11-29: H2800X50 (ASPH) S-12.5, D-16 LIRL 0.3% up NW

RWY 11: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Trees.

RWY 29: REIL. PAPI(P2L)—GA 3.0° TCH 30'.

AIRPORT REMARKS: Attended 1400-2300Z†. Ground drops off approximately 50-75 ft at end of Rwy 11 safety area. Rwy 11 P-lines L and R on apch. P-line right on apch marked with ball markers. ACTIVATE LIRL Rwy 11-29—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ WATERLOO APP/DEP CON 118.9 (1200-0200Z†)

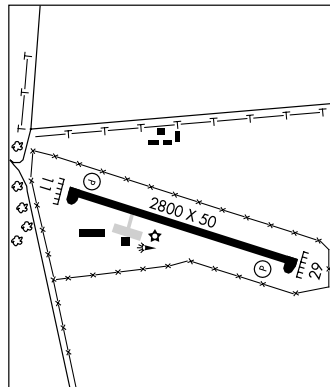
CHICAGO CENTER APP/DEP CON 118.9 (0200-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE ALO.

WATERLOO (H) VORTACW 112.2 ALO Chan 59 N42°33.39'

W92°23.94' 331° 12.1 NM to fld. 865/6E.

HIWAS.



L-28F

IAP

WEBSTER CITY MUNI (EBS) 3 SW UTC-6(-5DT) N42°26.19' W93°52.14'

OMAHA

1122 B S4 FUEL 100LL, JET A NOTAM FILE EBS

RWY 14-32: H4007X75 (CONC) S-15 MIRL 0.4% up NW

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Road.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Fence.

RWY 05-23: 2662X90 (TURF)

RWY 05: Fence.

AIRPORT REMARKS: Attended 1300Z†-dusk. Rwy 05-23 CLOSED Nov-Apr. CAUTION: ultralight activity on and invof arpt. Rwy 32 is calm wind rwy. Rwy 05 and Rwy 23 thlds and edges marked with cones. Rwy 14 REIL OTS indef. ACTIVATE MIRL Rwy 14-32, PAPI Rwy 14 and Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS-3 127.825 (515) 832-2794.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 134.0

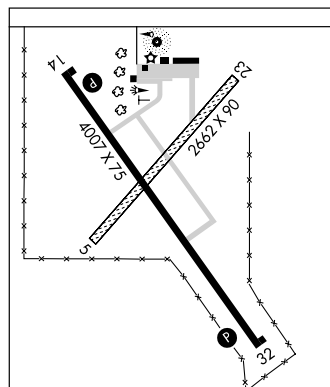
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

FORT DODGE (H) VORTACW 113.5 FOD Chan 82 N42°36.67'

W94°17.69' 112° 21.6 NM to fld. 1164/7E. HIWAS.

NDB (MHW) 323 EBS N42°26.48' W93°52.16' at fld.

NOTAM FILE EBS.



L-12J

IAP

WEST UNION N42°56.63' W91°46.94' NOTAM FILE FOD.

CHICAGO

NDB (MHW) 278 XWY 350° 2.5 NM to George L. Scott Muni.

L-28F

WEST UNION**GEORGE L SCOTT MUNI** (3Y2) 1 NE UTC-6(-5DT) N42°59.11' W91°47.44'

CHICAGO

1232 B FUEL 100LL NOTAM FILE FOD

L-28F

RWY 17-35: H4248X60 (CONC) S-21, D-21 MIRL 0.9% up N

IAP

RWY 17: PAPI(P2L)—GA 3.0° TCH 45'. Tree.

RWY 35: PAPI(P2L)—GA 3.0° TCH 43'.

AIRPORT REMARKS: Unattended. For fuel call 563-422-5842 or 563-422-3966, no credit cards. Drop-off within rwy safety area E of Rwy 17-35 at approximately 1500' from rwy end. PAPI Rwy 17 NSTD, key CTAF 5 times. PAPI Rwy 35 NSTD, key CTAF 5 times.

COMMUNICATIONS: CTAF/UNICOM 122.8

⑧ MINNEAPOLIS CENTER APP/DEP CON 118.85

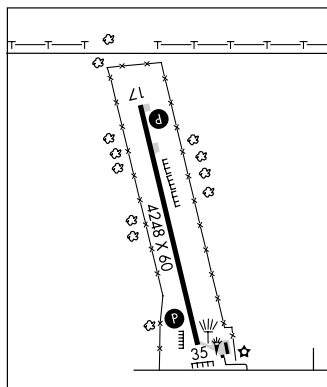
RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

WAUKON (L) VORTAC 116.6 UKN Chan 113 N43°16.81'

W91°32.24' 207° 20.9 NM to fld. 1288/5E.

WEST UNION NDB (MHW) 278 XWY N42°56.63' W91°46.94'

350° 2.5 NM to fld.

**WINTERSET-MADISON CO**

(3Y3) 2 N UTC-6(-5DT) N41°21.77' W94°01.26'

OMAHA

1110 B S4 FUEL 100LL, JET A TPA-1910(800) NOTAM FILE FOD

L-121, 27A

RWY 14-32: H3000X50 (ASPH) MIRL 0.6% up NW

IAP

RWY 14: PAPI(P4L). Thld dsplcd 175'.

RWY 32: PAPI(P2L) Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z, Sat-Sun on call.

Ultralight and sky diving activity on and in/ovf arpt. Rwy 32 is calm wind rwy. Inadequate clnc for holding on the turnaround at the thld of Rwy 32. ACTIVATE MIRL Rwy 14-32 and PAPI Rwy 14 and Rwy 32—CTAF.

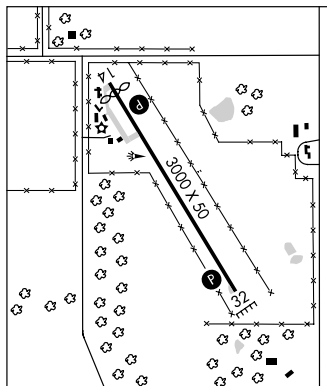
COMMUNICATIONS: CTAF/UNICOM 122.7

DES MOINES APP/DEP CON 135.2

RADIO AIDS TO NAVIGATION: NOTAM FILE DSM.

DES MOINES (H) VORTACW 117.5 DSM Chan 122 N41°26.22'

W93°38.92' 248° 17.4 NM to fld. 940/7E. HIWAS.

**WOODBINE MUNI**

(3Y4) 1 E UTC-6(-5DT) N41°44.17' W95°41.02'

OMAHA

1068 NOTAM FILE FOD

RWY 17-35: 2045X95 (TURF) LIRL

RWY 17: Thld dsplcd 455'. Trees. RWY 35: Thld dsplcd 545'. Tree.

AIRPORT REMARKS: Unattended. Rwy 17-35 edges marked with yellow cones; dsplcd thlds marked with 3 yellow each side.

COMMUNICATIONS: CTAF 122.9**ZANGGER VINTAGE AIRPARK**

(See LARCHWOOD)

ZILOM N42°19.38' W90°35.94' NOTAM FILE DBQ.

CHICAGO

NDB (LOM) 341 DB 310° 6.9 NM to Dubuque Rgnl.

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2009 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2009, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2009 aerial demonstration locations, subject to change without notice, are:

DATE:		USAF Thunderbirds	USN Blue Angels	Canadian Snowbirds	USA Golden Knights
October	24-25		Fort Worth, TX		Fort Worth, TX
	24-25				Pinehurst, NC
	31		Houston, TX		
November	1		Houston, TX		
	7-8	Homestead AFB, FL	Jacksonville Beach, FL		
	13-14		NAS Pensacola, FL		
	14-15	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.

SEARCH LIGHT SHOW Rosebud Casino, Valentine, Nebraska

Searchlight Activity will be conducted in an area within a 1 NM radius of 42 59 56N/100 34 29W (ANW315/36.5), 1500 AGL and above, from 1900 to 0200 local hours nightly. Searchlight beams may be injurious to pilots/passengers eyes at 1500 AGL and above. Flash blindness or cockpit illumination may occur at greater distances, up to several miles from the source. Huron AFSS, 866-732-1331, is the FAA coordination facility.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

AEROBATIC PRACTICE AREA FORT SCOTT MUNICIPAL AIRPORT (FSK), FORT SCOTT, KS

Aerobatic practice will be conducted within 1 NM radius of Fort Scott Municipal Airport (FSK), SFC to 5,000 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

HAROLD KRIER FIELD (K58), ASHLAND, KS

Aerobatic practice will be conducted within 2 NM radius of Harold Krier Field (K58), SFC to 3,500 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

WAMEGO MUNICIPAL AIRPORT (69K), MANHATTAN, KS

Aerobatic practice will be conducted within 1 NM radius of Wamego Municipal Airport (69K) SFC to 4,500 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

GRANITE FALLS MUNI/LENZEN-ROE, AIRPORT, (GDB) GRANITE FALLS, MN

Aerobatic practice will be conducted within 2 NM radius of MVE160012, SFC to 6,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

SEWARD COUNTY AIRPORT (SWT), SEWARD, NE

Aerobatic practice will be conducted within 1 NM radius of Seward County Airport (SWT), SFC to 7,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

PIERRE REGIONAL AIRPORT (PIR), PIERRE, SD

Aerobatic practice will be conducted within 2 NM radius of Pierre Regional Airport (PIR, SFC to 3,300 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

SKIE-LINCOLN AIRPORT (Y14), TEA, SD

Aerobatic practice will be conducted within 1 NM radius of Skie-Lincoln County Airport (Y14), SFC to 5,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

MODEL ROCKET ACTIVITY ANTHONY, KS

Model Rocket activity will be conducted within a 5 NM radius of ANY081021, SFC to 34,500 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

SPECIAL NOTICES**ELLINWOOD, KS**

Model Rocket activity will be conducted within a 3 NM radius of the Ellinwood Airport (1K6), with an alternate site of 2 NM Northwest of Ellinwood Airport (1K6), SFC to 10,000 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

PITTSBURG, KS

Model Rocket activity will be conducted within a 3 NM radius of OSW045034, SFC to 18,000 feet MSL, SR-SS. For further information, contact Flight Services at 1-800-WX-BRIEF (992-7433).

HALLSVILLE, MO

Model Rocket activity will be conducted within a 2 NM radius of HLV299010, SFC to 6,000 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

CONTROLLED FIRING**Parsons, Kansas****(Until Further Notice)**

Controlled Firing Area 1 NM radius 37°17'39"N/95°08'46"W, SFC-3200 MSL, Eff weekdays 0630-1700 LCL

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS
MINNEAPOLIS-ST PAUL INTERNATIONAL/WOLD-CHAMBERLAIN AIRPORT (MSP)
MINNEAPOLIS, MINNESOTA

Minneapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 4 at Taxiways "S", "C2", "C3", "M2", or "M3"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

LAMBERT-ST LOUIS INTERNATIONAL (STL), MISSOURI

STL Precision Runway Monitor Electronic Scan Radar System (PRM) commissioned. Full utilization of PRM is pending the future implementation of simultaneous instrument approaches. Until then no operational impact will result from the commissioning of PRM.

SIMULTANEOUS OFFSET INSTRUMENT APPROACH (SOIA) PROCEDURE FOR PILOTS FILING FLIGHT PLANS TO LAMBERT-ST LOUIS INTERNATIONAL AIRPORT (STL)

Effective Thursday, October 27, 2005. During the hours of 0700–2200 local, STL ATC may utilize LDA PRM and ILS PRM approaches as weather and traffic demand dictate. Aircraft arriving from the northeast and northwest (primarily over PETTI and LORLE intersections) should expect ILS PRM Runway 30R. Aircraft arriving from the west and southeast (primarily over FTZ and QBALL) should expect LDA PRM Runway 30L. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1–800–333–4286 or 703–904–4452 prior to departure to obtain a precoordinated arrival time. Non-participating acft may encounter delays. Pilot requirements and procedures are outlined in U.S. Terminal Procedures Publications available on pages entitled “ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)” or “ATTENTION ALL USERS OF LDA PRECISION RUNWAY MONITOR (PRM)”. This notice is effective until further notice.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

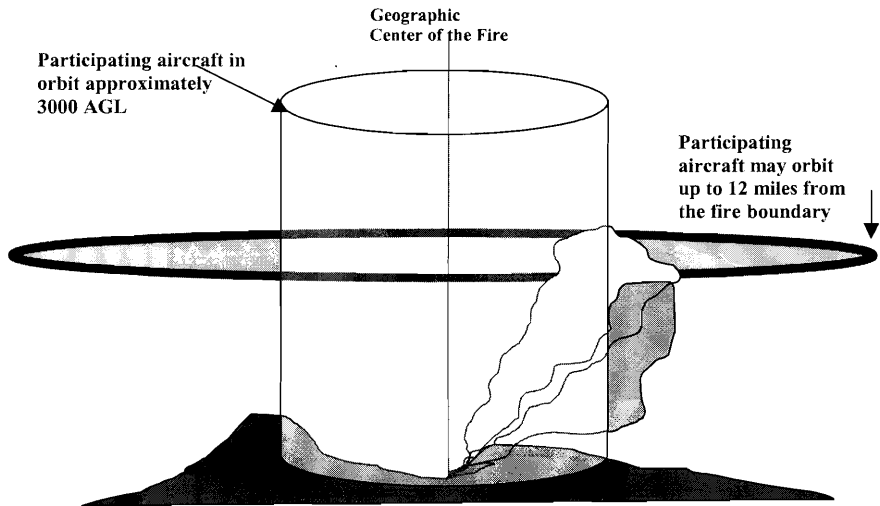
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated “Continuous Power Airports,” and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA)	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

FIREFIGHTING TRAFFIC AREAS

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

NORTH CENTRAL U.S.

MINNESOTA: Princeton Municipal (PNM)—**PNM FSS**

MISSOURI: Columbia, Columbia Regional (COU)—**COU FSS**

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings 1-800-WX-BRIEF (1-800-992-7433)

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) 1-877-4TIBS-WX(1-877-484-2799)

Clearance Delivery Only 1-888-766-8267

Lifeguard Flights Only 1-877-LIF-GRD3 (1-877-543-4733)

Flights within DC SFRA & FRZ * 1-866-225-7410

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA
OVC008CB
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB
18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Varia</u> ble); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in TAF <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"</u> / <u>"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No change</u>)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: <u>SKY</u> Clear 0/8, <u>FEW</u> >0/8-2/8, <u>SCa</u> tered 3/8-4/8, <u>BroKe</u> N 5/8-7/8, <u>Over</u> cast 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>Cumulonim</u> Bus in METAR ; in TAF , only <u>CB</u> . <u>Vertical Vi</u> sibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, <u>CLea</u> R for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature <u>"</u> / <u>"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013)	A2992

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. TAF , non-convective low-level ($\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"/";</u> 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u> In METAR , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level</u> Pressure in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/</u> dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	<u>TEMPO</u> rary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period	
PROB40 0407	<u>PROB</u> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period	
BECMG 1315	<u>BEC</u> oM <u>in</u> G: change expected during 2-digit hour beginning and 2-digit hour ending time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFIER

Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

Descriptor

MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

WEATHER PHENOMENA

Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets

UP Unknown precipitation in automated observations

Obscuration

BR Mist ($\geq 5/8$ SM)	FG Fog ($< 5/8$ SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust

Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥ 10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number.....703-904-4400

RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00 p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	407-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

®CHICAGO CENTERH-2-5-10, L-12-27-28-31, A-1
(KZAU)

Burlington - 135.6
Cedar Rapids - 132.8
Des Moines - 127.05
Dubuque - 133.95 **127.775** **125.225**
Moline - **135.825** 118.75
Otumwa - 118.15
Washington - **134.325** **133.35** **125.575**

®DENVER CENTER - 124.8H-1-2-3-4-5-6, L-8-9-10-11-12-13-14-15
(KZDV)

Ainsworth - 132.7 127.95
Cheyenne - 125.9
Colby - **132.175** **127.65**
Crawford - **135.025** 127.95
Goodland - 132.5
Grand Island West - 132.7
Hayes Center - **127.025**
Hill City - 132.5
North Platte - 132.7 **124.225**
Ogallala - 132.7 **126.325**
O'Neill - **135.025** 132.7
Rapid City - 127.95
Scottsbluff - 127.95
Sterling - 118.475

®KANSAS CITY CENTER - 132.325H-5-6, L-10-15-16-27, A-2
(KZKC)

Anthony - **133.2** 118.35
Butler - 125.55
Chanute - 132.9
Chillicothe - 125.25
Columbia - **134.5** 134.5 **119.475** 118.4
Dodge City - **120.725**
Edna - 128.6 **118.125**
Emporia - **132.25** 127.725 **124.975** 120.2
Farmington - **132.65** **120.825** 127.475
Garden City - **133.45** 125.2
Hallsville - **126.975**
Hutchinson - **134.3** **132.825** 118.8
Independence - **121.65**
Kansas City - **127.125**
Kirksville - **134.625** **133.725** 132.6
Liberal - **134.675** 134.0
Manhattan - 127.35
Maples - 128.35
Richland - 128.35 **125.675** 124.1
Russell - 124.4
St. Charles - 125.9
St. Joseph - 127.9
St. Louis - **133.15** 128.35
Salina - 134.9 **125.175**
Springfield - **133.475** 127.5
Topeka - **134.725** **125.425** 123.8

®MEMPHIS CENTERH-5-6-9, L-15-16-17-18-22-25-26
(KZME)

Malden - 134.65

® MINNEAPOLIS CENTER – 134.45 125.5 120.3

H-2-5-10-11, L-10-12-13-14-27-28-31

(KZMP)

Aberdeen – 120.6
 Alexandria – **133.4** 126.1
 Bemidji – 134.75
 Bismark – 125.6 **125.6**
 Brainerd – 118.05
 Darwin – 125.5
 Des Moines – **135.775** **118.825** 125.65
 Dickinson – 124.25
 Duluth – **134.55** 134.55 127.9
 Dupree – 120.05
 Fairmont – 127.75
 Fargo – **127.35**
 Farmington – 133.7
 Ft. Dodge – 134.0
 Grand Forks – **132.15**
 Grand Island – 126.05
 Green Bay – 125.55
 Hastings – **135.1** 119.4
 Huron – **126.25**
 International Falls – 120.9
 Iron Mountain – 133.45 121.25
 Jamestown – 125.6 **124.2**
 La Crosse – 128.6 **118.85**
 Lincoln – **119.525**
 Mankato – 135.0
 Marysville – **134.225** 126.4
 Mason City – **134.25** 127.3
 Minot – **127.6** 127.6 118.9
 Mosinee – 124.4
 Omaha – **132.725** 128.75 119.6
 O'Neill – 128.0 **124.875**
 Pierre – **128.425** 125.1
 Princeton – 121.05
 Redwood Falls – **133.075** 127.1 **119.875**
 Rochester – 132.35
 Roseau – 134.75
 Sioux City – **119.725** 124.1
 Sioux Falls – 132.05
 Traverse City – 338.3
 Watertown – 128.5
 White Cloud – **132.55** 120.85

® SALT LAKE CITY CENTER

H-1-2-3, L-9-11-12-13-14

(KZLC)

Watford City – **126.85** 126.85

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

COLUMBIA AFSS

BUTLER VORTAC 115.9T 122.1R
 CHILLICOTHE RCO 122.25
 CLINTON RCO 122.4
 COLUMBIA RCO 119.3 122.2 122.65
 DOGWOOD VORTAC 109.4T 122.1R
 DOWNTOWN RCO **122.6**
 HALLSVILLE VORTAC 114.2T 122.1R
 JEFFERSON CITY RCO 122.25
 JOHNSON COUNTY RCO 122.15
 JOPLIN RCO 122.6
 KANSAS CITY VORTAC 113.25T 122.1R 122.65
 KIRKSVILLE VORTAC 114.6T 122.1R 122.2
 LEBANON RCO 122.5
 MACON VOR/DME 112.9T 122.1R
 MAPLES VORTAC 113.4T 122.1R
 NEOSHO VOR/DME 117.3 122.1R
 POINT LOOKOUT RCO 122.65
 ST JOSEPH VORTAC 115.5T 122.1R 122.3
 SEDALIA RCO 122.05
 SPRINGFIELD VORTAC 116.9T 122.1R **122.55**
 SUNSHINE RCO 122.15
 VICHY VOR/DME 117.7T 122.1R 122.35
 WEST PLAINS RCO 122.15

COLUMBUS AFSS

AINSWORTH RCO 122.4
 ALLIANCE RCO 122.3
 BEATRICE RCO 122.5
 CENTRAL NEBRASKA RCO 122.45
 CHADRON VOR/DME 113.4T 122.1R 122.5
 COLUMBUS RCO 122.2 122.4
 HASTINGS VOR/DME 108.8T 122.1R
 HAYES CENTER VORTAC 117.7T 122.1R
 KEARNEY RCO 122.55
 LEE BIRD RCO **122.5**
 LINCOLN RCO **122.65**
 MC COOK RCO **122.6**
 NORFOLK VOR/DME 109.6T 122.15
 OMAHA RCO **122.35**
 O'NEILL RCO 122.45
 PAWNEE CITY VORTAC 112.4T 122.1R
 SCOTTSBLUFF VORTAC 112.6T 122.1R **122.6**
 SIDNEY VORTAC 115.9T 122.1R **122.45**
 THEDFORD RCO 122.4
 WOLBACH VORTAC 114.8T 122.1R

FORT DODGE AFSS

BURLINGTON RCO 122.65
CEDAR RAPIDS RCO 122.55
CHARLES CITY RCO 122.4
DAVENPORT RCO 122.5
DENISON RCO 122.25
DES MOINES RCO 122.65
DUBUQUE RCO 122.05
FORT DODGE RCO 122.2 122.3
GRINNELL RCO **122.35**
IOWA CITY VORTAC 116.2T 122.1R 122.25
LAMONI VORTAC 116.7T 122.1R
MASON CITY RCO 122.6
NEWTON VOR/DME 112.5T 122.1R
OMAHA VORTAC 116.3T 122.1R
OTTUMWA RCO 122.4
SIOUX CITY VORTAC 116.5T 122.1R 122.45
SPENCER RCO 122.15
WATERLOO RCO 122.05
WAUKON VORTAC 116.6T 122.1R

GRAND FORKS AFSS

BISMARCK RCO 122.2
BOWMAN RCO 122.4
DEVILS LAKE RCO 122.3
DICKINSON RCO 122.2
FARGO RCO 122.425
GRAND FORKS RCO 122.2 **122.6**
GRAND FORKS VOR/DME 114.3T
HAZEN RCO 122.45
JAMESTOWN VOR/DME 114.5T 122.2 123.6
MINOT RCO 122.2
ROLLA RCO 122.65
WILLISTON RCO **123.6**

GREEN BAY AFSS 122.2 122.55

RED WING RCO 122.6

HURON AFSS

ABERDEEN VOR/DME 113.0T 122.1R 122.4
BROOKINGS RCO 122.65
BUFFALO RCO 122.15
DUPREE RCO 122.6
HURON VORTAC 117.6T 122.1R 122.2 122.6 123.6
MITCHELL RCO 122.3
MOBRIDGE RCO 122.35
PHILIP RCO 122.4
PIERRE RCO 122.2
RAPID CITY VORTAC 112.3T 122.1R 122.65
SIOUX FALLS RCO 122.2
SPEARFISH RCO 122.55
WATERTOWN RCO 122.5
WINNER VOR 112.8T 122.1R
YANKTON RCO 122.55

PRINCETON AFSS

ALBERT LEA RCO 122.05
ALEXANDRIA RCO 122.6
ANOKA COUNTY RCO 122.55
AUSTIN RCO 122.5
BAUDETTE RCO 122.4
BEMIDJI RCO 123.6
BRAINERD RCO 123.65
CRANE LAKE RCO 122.2
DARWIN VORTAC 109.0T 122.1R
DETROIT LAKES RCO 122.5
DULUTH RCO 122.35
ELY VOR/DME 109.6T 122.1R
EVELETH RCO 122.45
FAIRMONT VOR/DME 110.2T 123.6R
FARMINGTON VORTAC 115.7T 122.1R
FERGUS FALLS RCO 122.35
GRAND MARAIS RCO 122.3
GRAND RAPIDS RCO 122.05
HIBBING RCO 122.6
HUMBOLDT VORTAC 112.4T 122.1R
INTL FALLS RCO 123.6
MADISON RCO 122.3
MANKATO VOR/DME 110.8T 122.1R
MARSHALL RCO 122.35
MINNEAPOLIS RCO 122.3
MONTEVIDEO RCO 122.45
MORA RCO 122.4
MORRIS RCO 122.25
NODINE VORTAC 117.9T 122.1R
OWATONNA RCO 122.25
PARK RAPIDS VOR/DME 110.6T 122.1R
PRINCETON RCO 122.2
REDWOOD FALLS RCO 122.4
THIEF RIVER FALLS VOR/DME 108.4T 122.1R 123.6R
ROCHESTER RCO 122.45
ROSEAU RCO 122.25
ST CLOUD RCO 122.5
WARROAD RCO 122.55
WILLMAR RCO 122.15
WINONA RCO 122.15
WORTHINGTON VOR/DME 110.6T 122.1R 123.6R

SAINT LOUIS AFSS

BIBLE GROVE VORTAC 109.0T 122.05R
CAPE GIRARDEAU VOR/DME 112.9T 122.1R **122.4**
CAPITAL VORTAC 112.7T 122.1R 122.25
CENTRALIA VORTAC 115.0T 122.1R
CHAMPAIGN (URBANA) RCO 122.45
DECATUR RCO 122.3
FARMINGTON VORTAC 115.7T 122.1R 122.3
FORISTELL VORTAC 110.8T 122.1R
MALDEN VORTAC 111.2T 122.1R
MARION VOR/DME 110.4T 122.1R
MATTOON VOR/DME 109.4T 123.6R
QUINCY VORTAC 113.6T 122.1R 122.5
ST LOUIS VORTAC 117.4T 122.1R 122.2 122.6 122.45
ST LOUIS RGNL RCO 122.45 122.6
SAMSVILLE VOR/DME 116.6T 122.1R
SPINNER RCO 122.25
SPIRIT of ST LOUIS RCO 122.2 124.75
VANDALIA VORTAC 114.3T 122.1R

WICHITA AFSS

ANTHONY VORTAC 112.9T 122.1R
CHANUTE RCO 122.35
DODGE CITY RCO 122.35
EMPORIA RCO 122.3
FT LEAVENWORTH RCO 122.35
GARDEN CITY RCO 122.45
GOODLAND RCO 122.4
GREAT BEND RCO 122.5
HAYS RCO 122.3
HILL CITY RCO **122.65**
HUTCHINSON RCO 122.05
LIBERAL RCO 122.4
MANHATTAN RCO **122.65**
MANKATO VORTAC 109.8T 122.1R
MC PHERSON RCO 122.15
OSWEGO VORTAC 117.6T 122.1R
PARSONS RCO 122.35
RUSSELL RCO 122.6
SALINA RCO 122.4
STROTHER RCO 122.5
TOPEKA RCO 122.45
ULYSSES RCO 122.3
WICHITA RCO 122.2 **122.65**

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

IOWA

Des Moines FSDO
3753 Convenience Blvd
Ankeny, IA 50021
Telephone: 515-289-3840

KANSAS

Wichita FSDO
1801 Airport Road
Wichita, KS 67209
Telephone: 316-941-1200

MINNESOTA

Minneapolis FSDO
6020 28TH Ave. South, Room 201
Minneapolis, MN 55450
Telephone: 612-713-4211

MISSOURI

Kansas City FSDO
901 Locust, Room 403
Kansas City, MO 64106
Telephone: 816-329-4000

St. Louis FSDO
10801 Pear Tree Lane
St. Ann, MO 63074
Telephone: 314-429-1006

NEBRASKA

Lincoln FSDO
3431 Aviation Rd, Suite 120
Lincoln, NE 68524
Telephone: 402-475-1738

NORTH DAKOTA

Fargo FSDO
4620 Amber Valley Pkwy
Fargo, ND 58104
Telephone: 701 277-1245

SOUTH DAKOTA

Rapid City FSDO
909 St. Joseph Street
Suite 700
Rapid City, SD 57701
Telephone: 605-737-3050

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flights are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a nav aid, a nav aid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.
 Sun 1300–2259 local time.
 Mon thru Fri 0701–2259 local time.
 Sat 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
DES MOINES (DSM)		
Memphis (MEM).....	V175 MAW	0000–2359
KANSAS CITY METRO AREA		
Chicago Midway (MDW).....	PIA MOTIF–STAR	0000–2359
Chicago O'Hare (ORD).....	EXCEL V116 PIA V262 BDF V10 PLANO	
Indianapolis (IND)	EXCEL V116 UIN V50	0000–2359
Louisville (SDF)	ANX V12 COU V44 HODGS V175 VIH V178 FAM	
	V190 PXV V4	0000–2359
	or	
	ANX V159 AUGIE V234 VIH V178 FAM V190 PXV	
	V4	0000–2359
St. Louis (STL).....	LAKES–DP COU TRAKE TRAKE–STAR.....	0000–2359
Terre Haute (HUF).....	EXCEL V116 UIN V50	0000–2359
MINNEAPOLIS METRO AREA		
Chicago Midway (MDW).....	V2 LNR V171 RFD V128 V8 JOT	0000–2359
Chicago O'Hare (ORD).....	V2 V97 KRENA	0000–2359
ST. LOUIS METRO AREA		
Chicago Midway (MDW).....	CARDS–DP SPI V9 PNT V69 JOT	0000–2359

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD).....	(at or blo 170) CARDS-DP SPI V9 PNT V227 PLANO	0000-2359
Cleveland (CLE).....	(non-turbojets) TURBO-DP DEC VHP V14 MIE V210 ROD ABERZ-STAR	
Columbus (CMH)	TOY V12 J134 GBEE CVG V5 JOGER	
Indianapolis (IND)	(Turbojets) GATWY-DP VHP	
	or (Non-turbojets) TURBO-DP DEC VHP	
Kansas City (MCI).....	OZARK-DP MCM BQS-STAR	
SPRINGFIELD (SGF)		
Indianapolis (IND)	V190 FAM V72 BIB V12 KELLY	0000-2359
	or V190 PXV V11	0000-2359
Springfield (SPI)	V63 UIN V50 SPI	0000-2359
Terre Haute (HUF).....	V190 PXV V7	0000-2359
WICHITA (ICT)		
Indianapolis (IND)	V12 EMP V234 ENL V72 BIB V12 KELLY	0000-2359
Louisville (IIU).....	V350 CNU V132 SGF V190 PXV V4	0000-2359
Terre Haute (HUF).....	V12 EMP V234 ENL V72 BIB	0000-2359

HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
KANSAS CITY (MCI)		
Baltimore (BWI).....	LAKES-DP COU STL J24 VHP ROD J152 J162 MGW EMI-STAR	0000-2359
Chicago O'Hare (ORD).....	ROYAL-DP JTHRO IRK BDF BDF-STAR	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR.....	
Dallas/Fort Worth (DFW)	RACER TUL UKW	
Detroit Metro-Wayne (DTW).....	MKG POLAR-STAR.....	
Kennedy (JFK).....	LAKES-DP COU STL J24 VHP ROD J29 JHW J70 LVZ LENDY-STAR	
La Guardia (LGA)	ROYAL-DP JTHRO IRK BDF JOT J146 ETG MIP-STAR	
Milwaukee (MKE)	ROYAL-DP JTHRO IRK BDF JOT VEENA-STAR	1100-0400
Newark (EWR).....	ROYAL-DP JTHRO IRK BDF JOT J146 GIJ J554 CRL J584 SLT FQM-STAR	
Washington Dulles (IAD).....	LAKES-DP COU STL J24 VHP J80 J30 BUCKO JASEN-STAR	
	or LAKES-DP COU STL J24 VHP J80 AIR MGW MGW 121 VERNI ESL ROYL-STAR.....	
	or (GPS or DME/DME IRU equipped) or LAKES-DP COU STL J24 VHP J80 AIR MGW VERNI ESL SHNON (RNAV)-STAR	
Washington Natl (DCA).....	LAKES-DP COU STL J24 VHP J80 J30 BUCKO BUCKO-STAR	
	or LAKES-DP COU STL J24 VHP J80 J30 SHAAR WZRRD-STAR	
	or LAKES-DP COU STL J24 VHP J80 J30 SHAAR ELDEE (RNAV)-STAR.....	
LINCOLN (LNK)		
Chicago O'Hare (ORD).....	FOD DBQ JVL-STAR	0700-2359
MINNEAPOLIS (MSP)		
Atlanta (ATL).....	ZMBRO-DP ODI J30 BRIBE BDF ENL ENL162 PLESS TINGS J45 BNA RMG-STAR	1100-0400
	or	

PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(RNAV only) ZMBRO-DP ODI J30 BRIBE ENL ENL162 PLESS TINGS J45 BNA ERLIN (RNAV)-STAR.....	1100-0400
Baltimore (BWI)	DLL J34 AIR J162 MGW EMI-STAR	
Chicago Midway (MDW)	DBQ CVA MOTIF-STAR	1100-0400
Chicago O'Hare (ORD)	RST JVL-STAR	0000-2359
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	COULT-DP DLL J34 GRR HIMEZ-STAR	
Dallas/Fort Worth (DFW)	J21 IRW UKW	
Denver (DEN)	FSD J114 SNY LANDR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	DLL BAE MKG LAN SPRTN-STAR	
Fort Lauderdale (FLL)	ROCHESTER-DP ALO J233 J45 STL J45 BNA J73 SZW J43 PIE FORTL-STAR	
	or (DME/DME-IRU or GPS) MSP ROCHESTER-DP ALO J233 J45 STL J45 BNA J73 SZW JINGL (RNAV)-STAR	
Fort Myers (RSW)	(DME/DME-IRU or GPS) ODI J30 BRIBE BDF ENL ENL162 PLESS J45 BNA J73 SZW TYNEE (RNAV)-STAR	1100-0300
Kansas City (MKC)	FOD RBA-STAR	
Kennedy (JFK)	DLL BAE J70 JHW J70 LVZ LENDY-STAR	0000-2359
La Guardia (LGA)	DLL BAE J34 J146 ETG MIP-STAR	
Madison (MSN)	ODI MSN	0700-2359
Marco Island (MKY)	(DME/DME/IRU or GPS) ODI J30 BRIBE BDF ENL ENL162 PLESS J45 BNA J73 SZW PIKKR (RNAV)-STAR	
Memphis (MEM)	ALO J233 STL J35 FAM GQE-STAR	
Miami (MIA)	ROCHESTER-DP ALO J233 J45 STL J45 BNA J73 SZW J43 PIE CYY-STAR	
	or (/E, /G, /R, /J, /L, /Q) MSP ROCHESTER-DP ALO J233 J45 STL J45 BNA J73 SZW J43 PIE DEEDS (RNAV)-STAR	
Milwaukee (MKE)	ODI MSN V2 WAITS	0700-2359
Myrtle Beach (MYR)	EARND ELANR EMMLY ERECO IIIU RYANS	
Naples (APF)	(GPS required) ODI J30 BRIBE BDF ENL ENL162 PLESS J45 BNA J73 SZW PIKKR (RNAV)-STAR .	
Nashville (BNA)	ODI J30 BRIBE BDF ENL ENL162 PLESS J45	1100-0400
Newark (EWR)	DLL BAE J34 CRL J584 SLT FQM-STAR	
Oakland (OAK)	ABR J32 MLD J158 MVA ECA	
Orlando (ORL) (MCO)	ODI J30 BRIBE BDF ENL ENL162 PLESS J45 ATL J89 OTK LEESE-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) ODI J30 BRIBE BDF ENL ENL162 PLESS J45 ATL J89 OTK PIGLT (RNAV)-STAR	1100-0400
Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) ROCHESTER-DP ALO J233 J45 STL J45 BNA J73 SZW WLACE	
Philadelphia (PHL)	COULT-DP DLL BAE J34 CRL CXR EWC JST BUNTS-STAR	
Phoenix (PHX)	ONL LBF PUB ALS J102 ZUN FOSSL-STAR	
Pottstown (PTW)	COULT-DP DLL BAE J34 CRL CXR EWC JST RST ALO J233 CNOTA RIVRS-STAR	
St. Louis (STL)	ABR J158 DDY J202 OCS OGD	
Salt Lake City (SLC)	ABR J32 FMG ILA PYE	
San Francisco (SFO)	ODI J30 BRIBE BDF ENL ENL162 PLESS J45 BNA J73 SZW CLAMP-STAR	1100-0400
Sarasota/Bradenton (SRQ)	ODI J30 BRIBE BDF ENL ENL162 PLESS J45 BNA J73 SZW DARBS-STAR	1100-0400
Tampa (TPA)		

Terminals	Route	Effective Times (UTC)
Washington Dulles (DCA).....	DLL J34 SHAAR WZRRD-STAR	
	or	
	DLL J34 SHAAR ELDEE (RNAV)-STAR	
Washington Natl (IAD).....	DLL J34 AIR MGW MGW121 VERNI ESL	
	ROYIL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) DLL J34 AIR	
	MGW VERNI SHNON (RNAV)-STAR	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped)	
	ROCHESTER-DP ALO J233 J45 STL J45 BNA	
	J73 SZW CTY GULLO (RNAV)-STAR	
	or	
	ROCHESTER-DP ALO J233 J45 STL J45 BNA J73	
	SWZ CTY LLAKE-STAR	1100-0400
OMAHA (OMA)		
Chicago O'Hare (ORD).....	FOD DBQ JVL-STAR	0700-2359
ROCHESTER (RST)		
Chicago O'Hare (ORD).....	RST JVL-STAR	0000-2359
ST LOUIS (STL)		
Baltimore (BWI).....	GATWY-DP IIU J526 BKW J147 CSN	
	OTT-STAR	
Boca Raton (BCT).....	(DME/DME/IRU OR GPS) PLESS-DP BNA J73	
	SZW PRRIE (RNAV)-STAR	
Boston (BOS).....	GATWY-DP ROD J29 JHW J82 ALB GDM	
	GDM-STAR	
Chicago Midway (MDW)	CARDS-DP SPI MOTIF-STAR	1200-0400
Chicago O'Hare (ORD).....	CARDS-DP BDF BDF-STAR,	0000-2359
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR)	GATWY-DP JIGSY J134 JUDDI CVG ABERZ-STAR ..	
	or	
	(turbojets) GATWY-DP JIGSY J134 JUDDI CVG	
	ABERZ-STAR	
Columbus (CMH)	GATWY-DP ROD V210 GUNNE	
Dallas/Fort Worth (DFW)	LINDY-DP MAP RZC FSM BYP	
Detroit Metro Area (PTK), (YIP), (ARB)		
(DET), (CYQG)	GATWY-DP VHP FWA CRUXX-STAR	
	GATWY-DP VHP FWA V96 VVV VVV051 POOFE....	
Fort Lauderdale (FLL)	(all others) PLESS-DP BNA J73 SZW J43 PIE	
	FORTL-STAR.....	
	or	
	(DME/DME/IRU OR GPS) PLESS-DP BNA J73	
	SZW JINGL (RNAV)-STAR.....	
Fort Myers (FMY)	(DME/DME/IRU OR GPS TURBOJET)	
	LINDBERGH-DP MAW VUZ J39 MGM J41 SZW	
	TYNEE (RNAV)-STAR.....	
Houston George Bush Intcntl (IAH)	(Turbojets-GPS or DME/DME-IRU equipped)	
	LINDY-DP LIT J180 SWB TXMEX (RNAV)-STAR ..	
	or	
	(non-advanced NAV only) LINDY-DP LIT J180	
	SWB DAS-STAR	
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) LINDY-DP LIT	
	J180 SWB ROKIT (RNAV)-STAR	
	or	
	(non-advanced NAV only) LINDY-DP LIT J180	
	SWB DAS-STAR	
La Guardia (LGA)	GATWY-DP ROD J29 J146 ETG MIP-STAR	
Miami (MIA)	(all others) PLESS-DP BNA J73 SZW J43 PIE	
	CYY-STAR	
	or	
	(DME/DME/IRU OR GPS TURBOJET) PLESS-DP	
	BNA J73 SZW SSCOT (RNAV)-STAR	
Orlando Executive (ORL)	PLESS-DP BNA J73 SZW OTK LEESE-STAR	
	or	
	(GPS or DME/DME-IRU equipped) PLESS BNA	
	J73 SZW OTK PIGLT (RNAV)-STAR	1100-0400

Terminals	Route	Effective Times (UTC)
Orlando Intl (MCO)	(GPS or DME/DME-IRU equipped) PLESS BNA J73 SZW OTK PIGLT (RNAV)-STAR	1000-0400
Tampa (TPA)	LINDY-DP MAW VUZ J41 SZW DARBS-STAR	1100-0400
Washington Dulles (IAD)	BLUES-DP IIU J526 BKW ROYIL-STAR	
	or	
Washington Natl (DCA)	BLUES-DP IIU J526 BKW SHNON (RNAV)-STAR ... GATWY-DP IIU J526 BKW WZRRD-STAR	
	or	
West Palm Beach (PBI)	GATWY-DP IIU J526 BKW ELDEE (RNAV)-STAR (DME/DME/IRU OR GPS) PLESS-DP BNA J73 SZW WLACE (RNAV)-STAR	

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic overflying Kansas City VORTAC (MCI) to IAD:		
MCI	J24 IIU J8 HVQ ROYIL-STAR	
	or	
	J24 IIU J8 HVQ SHNON (RNAV)-STAR	
Traffic overflying Lamoni VORTAC (LMN) to IAD:		
LMN	(GPS or DME/DME-IRU equipped) J64 FWA APE AIR MGW VERNI ESL ROYIL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) J64 FWA APE AIR MGW VERNI ESL SHNON (RNAV)-STAR	
Traffic overflying Saint Louis VORTAC (STL) to IAD:		
STL	IIU J8 HVQ ROYIL-STAR	
	or	
	IIU J8 HVQ SHNON (RNAV)-STAR	

Q-ROUTES

Q ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
Q2	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
Q5	SKTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
Q7	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, QNP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
Q11	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	None; GNSS required
	All segments	None; GNSS required
Q13	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IUU, FAM, BWG, CSX
Q15	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
Q19	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
Q20	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI

Route	Segment	DME
Q23	FORT SMITH–RAZORBACK	OKM, RZC, EOS, TUL
Q24	LAKE CHARLES–BATON ROUGE	AEX, DAS, LCH, MCB, LFT, BTR
	BATON ROUGE–IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE–PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW–WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE–WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN–POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE–DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH–ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN–PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD–HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT–ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE–POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES–MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS–SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
	SIDAE–POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON–VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART–JODOX	SQS, LIT, TXK
	JODOX–MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL–TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE–POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO–GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE–CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM–NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE–SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART–LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK–PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA–MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
	MATIE–MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS–SWAPP	BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY–NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO–WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN–CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR–DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	RAZORBACK–TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS–DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC–NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE–SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT–INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN–LAREY	JAN, MCB, SWB, AEX
	LAREY–BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA–DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS–WINAP	JAN, SQS, MEI, MCB
	WINAP–MISLE	MEI, VUZ, JYU
Q42	KIRKSVILLE–STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK–DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
	DANVILLE–MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE–HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
	HIDON–BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA–PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO–BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN–MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS–SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE–EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS–ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN–HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN–PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER–SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE–ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG–CYPRESS	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN

Route	Segment	DME
Q106	SMELZ-BULZI BULZI-DRABK DRABK-GADAY	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNDR-JAYMC JAYMC-RVERO RVERO-KPASA KPASA-BRUTS BRUTS-GULFR GULFR-FEONA	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP OMN, PIE, PBI, SRQ, ORL, LAL SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN HEVVN-INPIN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS BRUTS-GULFR GULFR-CEEYA	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK MCN, AMG, PZD, OTK, SZW, TAY
Q118	BRUTS-LENIE	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q502	GOPHER-SOBME KENPA-GOPHER	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
Q504	GOPHER-SOBME NOTAP-CESNA	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
Q505	CESNA-HEMDI OMAGA-RIMBE RIMBE-CESNA CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD SSM, TVC, ASP, SAW, GRB SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

*Denotes Critical DME Facility

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, EMG, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, ELD Q32 J42

Houston Hobby	LIT, EMG, MLC, JCT, or Aircraft joining J42 to the northeast, ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	OATHE DANDD-STAR
	or
	HGO QUAIL-STAR
	or
	LOPEC-STAR
	or
	ALS LARKS-STAR
	or
	HBU POWDR-STAR
	or
	EKR TOMSN-STAR
	or
	CHE TOMSN-STAR
	or
	BFF LANDR-STAR
	or
	LBF SAYGE-STAR
	or
	HCT SAYGE-STAR
	or
	RSK LARKS-STAR
	or
	LAA QUAIL-STAR
	or
	GCK J154 RYLIE DANDD-STAR
	or
	OCS J154 ALPOE RAMMS-STAR
	or
	YANKI J114 SNY LANDR-STAR
	or
	Aircraft filed BIL or east, MBW RAMMS-STAR
	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR
Ft Lauderdale or Ft Lauderdale Executive	Aircraft through ZHU airspace remain south ZME and ZTL airspace
	or
Houston Bush	SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
	CRP, CVE, LLO, LUKIY, SAT
	or
	Aircraft south and east of LLA, LLA
	or
	MISLE Q40 AEX
	or
	Aircraft north and east of SJI, SJI
	or
	Aircraft east of PXV, PXV Q31 DHART SWB
Houston Hobby	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	CRP, ELLVR, SAT, SWB
	or
	Aircraft south and east of GIRLY, GIRLY
	or
	Aircraft north and east of SJI, SJI
	or
	BESOM Q38 ROKIT ROKIT-STAR
	or
Jacksonville	Aircraft east of PXV, PXV Q29 HARES SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	GADAY ZOOSS TAY
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	ZOOSS TAY

John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNBY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW HEVVN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVVN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLL
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR

Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU

San Francisco	FMG GOLDEN GATE--STAR
	or
	MVA MODESTO--STAR
	or
	ENI GOLDEN GATE--STAR
	or
San Jose	OAL MODESTO--STAR
	or
	South of a line ILC to DVC, REANA KATTS OAL MODESTO--STAR
	FMG HYP EL NIDO--STAR
	or
	OAL HYP EL NIDO--STAR
Seattle Terminal Area	or
	ENI GOLDEN GATE--STAR
	or
	South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO--STAR
	Aircraft From northeast, southeast, south, TEMPL GLASR--STAR
	or
Southwest Florida Airports RSW and FMY	SUNED CHINS--STAR
	or
	BTG OLMYPIA--STAR
	CEW DEFUN Q104 SWABE JOSFF--STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
Tampa Terminal Area	SZW HEVVN Q104 SWABE JOSFF--STAR
	CEW DEFUN Q104 HEVVN DARBS--STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW DARBS--STAR
	DRK PXR
Tucson	or
	MOHAK GBN

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

BOSTON TERMINAL AREA CHART

VPCOH	Cohasset	N42°13.58' /W070°48.94'
VPCUT	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRA	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPLPT	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

CHICAGO SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCOH	_____	N31°49.35'/W081°51.07'

DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN	_____	N39°44.28'/W104°26.00'
VPFTG	_____	N39°44.35'/W104°32.75'
VPNIC	NORTH INTERCHANGE	N39°58.90'/W104°59.27'

HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25'/W095°09.24'
VPDTN	_____	N29°46.59'/W095°22.01'
VPGLA	_____	N30°08.32'/W095°06.62'
VPGLB	_____	N30°07.80'/W094°55.70'
VPKTY	_____	N29°47.05'/W095°44.92'
VPPLN	_____	N30°08.80'/W095°50.42'
VPRSN	_____	N29°30.00'/W095°41.00'
VPSND	_____	N29°23.13'/W095°28.86'
VPSNT	_____	N29°49.29'/W094°53.94'
VPTNE	_____	N29°47.48'/W095°03.34'
VPTNW	_____	N29°47.06'/W095°33.81'
VPTRK	_____	N29°24.06'/W095°10.44'

JACKSONVILLE SECTIONAL CHART

VPAFI	_____	N31°49.35'/W081°51.07'
VPAFY	_____	N30°07.00'/W081°21.33'
VPBEC	_____	N29°46.25'/W081°15.10'
VPCJA	_____	N29°30.00'/W081°06.00'
VPCKY	_____	N28°46.50'/W082°34.00'
VPCNY	_____	N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDAR	_____	N31°22.38'/W081°24.13'
VPDFI	_____	N29°00.17'/W081°20.85'
VPDUT	_____	N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEGV	_____	N29°39.97'/W081°24.87'
VPFFU	_____	N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHAA	_____	N30°04.02'/W083°40.02'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIWA	MIDWAY	N31°48.33'/W081°25.85'
VPJMY	_____	N29°26.92'/W081°18.27'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV	_____	N28°48.00'/W080°52.00'
VPLJA	_____	N29°00.00'/W080°51.00'
VPMAI	_____	N30°50.02'/W084°56.63'
VPTLH	_____	N30°32.70'/W083°52.22'
VPXZY	_____	N29°35.00'/W083°10.00'
VPYIW	_____	N30°42.28'/W081°27.25'
VPZIE	_____	N32°01.62'/W080°53.42'

KANSAS CITY SECTIONAL CHART

VPAGO	_____	N37°50.33'/W090°29.03'
VPBEK	_____	N37°15.07'/W092°30.67'
VPDEN	_____	N37°46.75'/W092°19.20'
VPENE	_____	N37°44.75'/W091°55.78'
VPES	_____	N36°59.48'/W091°00.88'
VPFME	_____	N37°41.00'/W092°38.33'
VPGXY	_____	N37°15.50'/W091°40.17'
VPMBE	_____	N37°11.08'/W090°27.92'
VPMKE	_____	N37°24.47'/W092°40.00'
VPROV	_____	N38°01.72'/W091°12.81'
VPUTT	_____	N37°52.05'/W092°01.20'

LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPGETY	GETTY CENTER	N34°04.84'/W118°28.66'
VPLBP	BANNING PASS	N33°56.05'/W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87'/W117°34.33'
VPLCP	CAJON PASS	N34°18.07'/W117°27.68'
VPLDL	DISNEYLAND	N33°48.72'/W117°55.13'
VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42'/W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10'/W118°18.02'
VPLHF	110/405 FWYS	N33°51.42'/W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75'/W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20'/W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40'/W117°56.77'
VPLPD	PRADO DAM	N33°53.40'/W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17'/W118°11.37'
VPLRB	ROSE BOWL	N34°09.67'/W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03'/W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72'/W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97'/W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07'/W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00'/W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40'/W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VPLWT	WATER TANK	N34°10.82'/W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV	_____	N27°57.00'/W080°46.75'
VPCLC	_____	N26°27.07'/W082°00.88'
VPCTE	_____	N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDUT	_____	N27°37.70'/W082°09.10'
VPDZE	_____	N27°19.00'/W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH	_____	N26°25.40'/W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHRO	_____	N27°05.97'/W082°12.20'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIBR	_____	N27°12.47'/W081°40.22'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPKOE	_____	N24°40.08'/W081°20.55'
VPLYY	_____	N24°49.07'/W080°49.17'
VPMBO	GULFSTREAM PARK	N25°58.57'/W080°08.17'
VPOBA	PUMPING STATION	N26°28.30'/W080°26.75'
VP RBI	_____	N25°50.67'/W080°55.18'
VP RNL	RANGER STATION	N25°22.92'/W080°36.58'
VPWMO	_____	N27°03.00'/W080°35.00'

MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00'
VPMBO	GULFSTREAM PARK	N25°58.57' /W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75'
VPRBI		N25°50.67' /W080°55.18'
VPRLN	RANGER STATION	N25°22.92' /W080°36.58'

NEW ORLEANS SECTIONAL CHART

VPGPT		N30°25.95' /W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' /W085°59.25'
VPMAI		N30°50.02' /W084°56.63'
VPMOB		N30°23.00' /W088°31.72'
VPRAM		N30°18.95' /W089°35.88'
VPRER		N30°13.87' /W085°20.67'
VPRIV		N30°54.85' /W087°57.82'
VPSAW		N30°49.65' /W089°07.42'
VPTHR		N30°19.93' /W087°08.50'

NEW YORK HELICOPTER CHART

VPJAY		N40°59.00' /W073°07.00'
VPLYD		N40°57.37' /W073°29.59'
VPROK		N40°52.70' /W073°44.24'

PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' /W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' /W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' /W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' /W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' /W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' /W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' /W111°50.37'
VPCNL	CANAL	N33°33.23' /W111°46.89'
VPRFB	FIREBIRD LAKE	N33°16.35' /W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' /W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' /W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' /W112°13.00'
VPMAR	MARICOPA	N33°03.42' /W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' /W111°49.58'
VPNRV	NEW RIVER	N33°55.08' /W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' /W111°55.83'
VPPIR	PIR	N33°22.52' /W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' /W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' /W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' /W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' /W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' /W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' /W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' /W111°59.67'
VPZZZ		N33°20.18' /W111°26.53'

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' /W090°22.42'
VPBPE		N38°23.80' /W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' /W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' /W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' /W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' /W090°11.55'
VPEDJ	WATER TANKS	N38°45.30' /W090°34.87'
VPEGR	GAS TANKS	N38°35.80' /W090°19.32'
VPEOX	ST PETERS	N38°47.17' /W090°39.25'

WAYPOINT IDENT

VPFAI
VPFFY
VPGPF
VPGVI
VPHRQ
VPIBO
VPJMU
VPKNY
VPLES
VPLIW
VPLXU
VPNSY
VPNZY
VPAZ
VPRMO
VPWKO
VPXXI
VPYID

COLLOCATED VFR CHECKPOINT

HOWELL ISLAND

CHAIN OF ROCKS BRIDGE
WATERLOO
HORSESHOE LAKE
PACIFIC
ST CHARLES
SIX FLAGS
GATEWAY ARCH
WOOD RIVER REFINERIES
WENTZVILLE
JERSEYVILLE
FOREST PARK
COLUMBIA
MILLSTADT
MOSENTHEIN ISLAND

LOCATION

N38°40.00'/W090°43.00'
N38°55.37'/W090°17.30'
N38°35.60'/W090°26.92'
N38°32.30'/W090°27.80'
N38°45.88'/W090°10.42'
N38°20.00'/W090°09.00'
N38°41.00'/W090°05.00'
N38°29.00'/W090°44.00'
N38°47.00'/W090°30.00'
N38°30.67'/W090°40.47'
N38°37.50'/W090°11.00'
N38°50.00'/W090°05.00'
N38°48.83'/W090°50.98'
N39°07.00'/W090°20.00'
N38°38.00'/W090°17.00'
N38°27.00'/W090°12.00'
N38°27.50'/W090°05.68'
N38°43.00'/W090°12.25'

SALT LAKE CITY HELICOPTER CHART

VPAIR
VPBEE
VPBRN
VPCAP
VPCHS
VPCOP
VPCWY
VPCYN
VPFPC
VPFPK
VPGFS
VPHVE
VPJRT
VPKSL
VPLGN
VPMDDH
VPMMT
VPMST
VPNSL
VPNTPT
VPOGE
VPOPS
VPPEN
VPPPT
VPPTM
VPPVO
VPRWY
VPSLC
VPTIP
VPWBR
VPWBT

SALTAIR
SOUTH INTERCHANGE
BARN
STATE CAPITOL

BINGHAM COPPER MINE
CAUSEWAY
PARLEYS CANYON
FREE PORT CENTER
FRANCIS PEAK
GARFIELD STACK
SPAGHETTI BOWL
JORDAN RIVER TEMPLE
KSL ANTENNA
LAGOON AMUSEMENT PARK
MCKAY DEE HOSPITAL
MICROWAVE TOWERS

GRAIN ELEVATOR
POWER STATION
STATE PRISON
PROMONTORY POINT
POINT OF THE MOUNTAIN
PROVO CANYON

I-15/I-80 INTERCHANGE
SOUTH TIP
WEBER CANYON

N40°44.85'/W112°11.22'
N40°38.18'/W111°54.23'
N40°54.28'/W112°10.15'
N40°46.67'/W111°53.25'
N40°42.28'/W112°05.92'
N40°31.38'/W112°09.00'
N41°05.37'/W112°07.17'
N40°42.67'/W111°48.10'
N41°05.92'/W112°02.27'
N41°01.98'/W111°50.30'
N40°43.28'/W112°11.88'
N40°43.50'/W111°54.22'
N40°35.02'/W111°55.58'
N40°46.80'/W112°05.80'
N40°59.08'/W111°53.57'
N41°11.50'/W111°57.08'
N40°48.50'/W111°53.37'
N41°01.67'/W112°02.47'
N40°50.15'/W111°54.90'
N41°03.57'/W112°14.23'
N41°13.13'/W112°00.45'
N41°20.38'/W112°02.78'
N40°29.88'/W111°53.62'
N41°12.28'/W112°25.73'
N40°27.42'/W111°54.83'
N40°18.77'/W111°39.45'
N40°48.48'/W112°00.33'
N40°45.83'/W111°54.85'
N40°50.93'/W112°10.92'
N41°08.17'/W111°54.83'
N40°38.00'/W112°03.33'

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR
VPBEE
VPBRN
VPCAP
VPCHS
VPCOP
VPCVI
VPCWY
VPCYN
VPFPC
VPFPK
VPGFS

SALTAIR
SOUTH INTERCHANGE
BARN
STATE CAPITOL

BINGHAM COPPER MINE
CENTERVILLE INTERCHANGE
CAUSEWAY
PARLEYS CANYON
FREE PORT CENTER
FRANCIS PEAK
GARFIELD STACK

N40°44.85'/W112°11.22'
N40°38.18'/W111°54.23'
N40°54.28'/W112°10.15'
N40°46.67'/W111°53.25'
N40°42.28'/W112°05.92'
N40°31.38'/W112°09.00'
N40°55.30'/W111°53.43'
N41°05.37'/W112°07.17'
N40°42.67'/W111°48.10'
N41°05.92'/W112°02.27'
N41°01.98'/W111°50.30'
N40°43.28'/W112°11.88'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTF	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73'/W111°50.28'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00'/W111°48.95'

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPOCN	_____	N33°14.15'/W117°26.63'
VPSBC	BARONA CASINO	N32°56.25'/W116°52.60'
VPSBL	_____	N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF	_____	N32°48.55'/W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72'/W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77'/W117°15.42'
VPSCR	_____	N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25'/W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53'/W116°53.28'
VPSMB	_____	N32°45.57'/W117°12.22'
VPSMP	_____	N33°22.70'/W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40'/W117°15.10'
VPSMV	_____	N32°45.75'/W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52'/W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82'/W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73'/W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90'/W117°14.55'
VPSPP	POWER PLANT	N33°08.25'/W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58'/W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78'/W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53'/W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17'/W117°14.68'
VPSVA	_____	N33°11.48'/W117°16.38'

SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75'/W119°53.20'
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SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35'/W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45'/W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50'/W122°07.45'
VPCAL	CALAVERAS RESERVOIR	N37°28.16'/W121°48.93'
VPCBT	LAKE CHABOT	N37°43.68'/W122°06.94'
VPCOY	COYOTE HILLS	N37°32.50'/W122°05.06'
VPCQZ	CARQUINEZ BRIDGE	N38°03.66'/W122°13.52'
VPCRL	_____	N37°11.00'/W121°41.06'
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56'/W122°21.10'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52'/W122°03.52'
VPDAM	DEL VALLE DAM	N37°36.91'/W121°44.78'
VPDLR		N37°07.00'/W121°47.06'
VPDUB	DUBLIN	N37°42.06'/W121°55.36'
VPEMB	EMBASSY SUITES	N37°26.05'/W121°53.83'
VPGGF	GOLDEN GATE FIELDS	N37°53.07'/W122°18.71'
VPGIL	GILROY	N37°01.37'/W121°33.99'
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KGO	N37°31.58'/W122°06.10'
VPLEX	LEXINGTON RESERVOIR	N37°11.66'/W121°59.18'
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28'/W122°11.81'
VPMOR	MORMON TEMPLE	N37°48.46'/W122°11.95'
VPNUM	NUMMI PLANT	N37°29.56'/W121°56.58'
VPPAC		N37°38.00'/W122°32.07'
VPPRU	PRUNEYARD	N37°17.33'/W121°56.01'
VPSAR	SARATOGA	N37°15.26'/W122°02.33'
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75'/W122°14.35'
VPSTB	STINSON BEACH	N37°54.45'/W122°40.41'
VPSUN	SUNOL GOLF COURSE	N37°34.85'/W121°53.23'
VPUTC	U.T.C.	N37°13.93'/W121°41.35'
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM		N37°30.28'/W122°10.00'
VPWFR	CEMENT PLANT	N37°30.88'/W122°12.26'

TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV		N27°57.00'/W080°46.75'
VPCNY		N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDFI		N29°00.17'/W081°20.85'
VPDUT		N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPFFU		N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHUC		N28°19.87'/W082°43.77'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV		N28°48.00'/W080°52.00'
VPLJA		N29°00.00'/W080°51.00'

WASHINGTON SECTIONAL CHART

VSPACE		N38°07.82'/W076°48.75'
VPAXI		N38°34.57'/W076°20.38'
VPBRA		N36°13.75'/W076°08.08'
VPGCE		N36°03.90'/W076°36.42'
VPWZO		N36°00.87'/W075°40.07'

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VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

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The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

IOWA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Burlington (Southeast Iowa Rgnl)	111.4/BRL	A/2500	288	9.6	Over intersection of Rwys 18-36 and 12-30.
Cedar Rapids (The Eastern Iowa)	114.1/CID	G	086	3.9	On runup pad Rwy 27.
	114.1/CID	G	087	2.6	On runup pad Rwy 09.
	114.1/CID	G	092	4	On runup pad Rwy 31.
Dubuque (Dubuque Rgnl)	115.8/DBQ	G	109	0.5	Apch end Rwy 31.
Fort Dodge (Fort Dodge Rgnl)	113.5/FOD	G	118	6.1	On W edge of terminal ramp.
Iowa City (Iowa City Municipal)	116.2/IOW	A/2000	019	8	Over rotg beacon.
Newton (Newton Muni)	112.5/TNU	A/2500	145	8	Over apch end Rwy 32.
Ottumwa (Ottumwa Rgnl)	111.6/OTM	A/2500	303	7.3	Over intersection of Rwys 13-31 and 04-22.
Sheldon (Sheldon Muni)	108.6/DDI	A/2700	098	8.0	Over grain elevator in city of Sanborn.
Sioux City (Sioux Gateway/Col Bud Day Fld)	116.5/SUX	G	313	4.5	On Twy F between Rwys 17 and 13 and Twy A. Air Ground OTS indef.
Spencer (Spencer Muni)	110.0/SPW	G	316	0.7	On painted circle on twy AER 12.
Waterloo (Waterloo Muni)	112.2/ALO	G	304	0.8	Twy B apch end Rwy 12.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Davenport Muni	111.8	G	
Des Moines Intl	109.2	G	

KANSAS

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Chanute (Chanute Martin Johnson)	109.2/CNU	A/2000	058	5.6	Over center of N/S rwy.
Emporia (Emporia Muni)	112.8/EMP	A/2700	320	9.0	Over intersection of Hwy 50 and I-35.
Fort Riley (Marshall AAF)	109.4/FRI	G	032	6.8	On parking ramp adjacent to radar antenna.

VOR RECEIVER CHECK

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Garden City (Garden City Rgnl)	113.3/GCK	G	359	1.0	Intersection of Twys A and D.
Goodland (Renner Fld/Goodland Muni)	115.1/GLD	G	201	1.2	On parking ramp in front of air terminal.
Hays	110.4/HYS	A/3000	071	12.2	Over grain elevator in Gorham.
Hill City (Hill City Muni)	113.7/HLC	A/4200	060	19.6	Over rotg bcn.
Hutchinson (Hutchinson Rgnl)	116.8/HUT	A/3500	033	5	Over apch end Rwy 04.
Manhattan	110.2/MHK	A/2500	054	3.9	Over water twr.
Manhattan (Manhattan Rgnl)	110.2/MHK	G	197	0.6	0.6 NM parallel twy at B intersection.
	110.2/MHK	G	201	0.9	Twy at Rwy 3 holdline.
Salina (Salina Muni)	117.1/SLN	G	180	7.8	On twy north of Twy E.
Topeka (Philip Billard Muni).....	117.8/TOP	G	215	5.6	East side of terminal ramp.
Wichita (Wichita Mid-Continent)	113.8/ICT	A/3500	216	7.1	Over grain elevator. SW corner of Garden Plains.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Topeka (Forbes Fld)	111.0	G	
Wichita (Wichita Mid-Continent)	114.0	G	

MINNESOTA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Albert Lea (Albert Lea Muni).....	109.8/AEL	G	140	.5	Apch end Rwy 34.
Alexandria (Chandler Fld)	112.8/AXN	A/2600	224	8.3	Over apch end Rwy 22.
Baudette (Baudette Intl)	111.6/BDE	A/2000	277	13.8	Over grain elevator Williams, MN.
Baudette (Baudette Intl)	111.6/BDE	G	310	.8	Rwy 12 runup pad.
Detroit Lakes (Detroit Lakes-Wething Fld) ..	111.2/DTL	A/3000	132	19	Over grain elevator in Perham Mn.
Duluth (Duluth Intl)	112.6/DLH	G	012	2.2	Intersection of Taxiways C and D near Rwy 03 thld.
Ely (Ely Muni)	109.6/ELO	A/2500	266	17.1	Over water tower in 'TOWER MN'.
Fergus Falls	110.4/FFM	A/2500	126	7.5	Over underpass intersection of 2 hwsy.
Flying Cloud	111.8/FCM	A/2000	278	6.0	Over Chaska water tower.
Gopher (Crystal)	117.3/GEP	A/1900	166	4.9	Over apch end Rwy 14L.
International Falls	111.0/INL	A/2200	135	11.0	Over highway bridge over railroad track.
International Falls (Falls Intl)	111.0/INL	G	113	0.6	On taxiway apch end Rwy 31.
Mankato (Mankato Rgnl).....	110.8/MKT	G	317	.9	Twy A4 AER 15.
Marshall	111.0/MML	A/2700	308	9.6	Over grain elevator at Minneota.
Montevideo (Montevideo-Chippewa Co).....	111.6/MVE	A/2000	105	11.1	Over grain elevator straddling train tracks.

VOR RECEIVER CHECK

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Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Park Rapids (Park Rapids Muni)	110.6/PKD	G	322	.6	On twy AER 13.
Rochester (Rochester Intl)	112.0/RST	A/3000	024	8.8	Over intersection of Rwy's 02-20 and 13-31.
Roseau	108.8/ROX	A/2400	178	6.5	Over microwave twr.
Saint Cloud (St Cloud Rgnl)	112.1/STC	G	291	0.5	Runup area AER 13.
Worthington	110.6/OTG	A/2800	050	5.6	Over grain elevator Brewster.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Minneapolis (Minneapolis St. Paul Intl/Wold Chamberlain)	111.0	G	Usable airborne 2500-4000' MSL within a 15 NM radius of VOT.
St Paul (St Paul Downtown Holman Fld)	114.4	G	

MISSOURI

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Butler	115.9/BUM	A/1800	035	9.2	Grain elevator. VOR Checkpoint unusable.
Cape Girardeau (Cape Girardeau Rgnl)	112.9/CGI	G	112	.6	On Twy C1 N of Twy C.
Forney (Waynesville-St Robert Rgnl Forney Fld)	110.0/TBN	G	173	0.53	On N edge of Army ramp.
Kirksville	114.6/IRK	A/2500	136	7.4	Over water tank at La Plata. Checkpoint unusable.
Kirksville (Kirksville Rgnl)	114.6/IRK	G	132	3.4	On twy just W of terminal area.
Malden	111.2/MAW	A/1500	351	13.4	Over intersection of Rwy's 18-36 and 04-22 of Dexter Muni Arpt.
Neosho (Joplin Muni)	117.3/EOS	A/2500	344	19	Over apch end Rwy 31.
Saint Joseph (Rosecrans Mem)	115.5/STJ	A/2500	167	10.7	Over apch end Rwy 17.
Springfield (Springfield-Branson Natl)	116.9/SGF	G	193	6.8	At E end of Twy B.
Sunshine (Lee C Fine Mem)	108.4/SHY	A/2500	353	9	Highway bridge over Osage River.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Jefferson City (Jefferson City Mem)	112.0	G	
Kansas City (Downtown)	108.6	G	
St. Louis (Lambert-St Louis Intl)	111.0	G	
Spirit of St. Louis	112.2	G	

NEBRASKA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt.	Azimuth from Gnd. Fac.	Dist. from Fac. N.M.	Checkpoint Description
		AB/ALT	Mag		
Ainsworth	112.7/ANW	A/3600	090	13.0	Over grain elevator south edge at Long Pine.
Alliance	111.8/AIA	A/5000	310	12.1	Over grain elevator 1 NM SE of Berea.
Beatrice	110.6/BIE	A/2400	046	6.1	Over 260' AGL antenna.
Chadron (Chadron Muni)	113.4/CDR	A/4500	017	19	Over intersection of Rwy 20 and 29.
Columbus	112.2/OLU	A/2500	082	12.7	Over bridge/railroad tracks at center of Schuyler.
Columbus (Columbus Muni)	112.2/OLU	G	167	0.5	On twy at apch end Rwy 32.
Grand Island (Central Nebraska Rgnl)	112.0/GRI	G	177	1.5	On parallel twy at AER 35.
Hastings	108.8/HSI	A/3200	266	8.1	Bridge over railroad.
Hastings (Hasting Muni)	108.8/HSI	G	330		Apch end Rwy 14.
Kearney (Kearney Muni)	111.2/EAR	G	211	0.5	South end of main ramp.
		G	319	0.5	North end of main ramp.
Lincoln (Lincoln)	116.1/LNK	G	176	4.9	On runup ramp for Rwy 35.
Norfolk	109.6/OFK	A/2600	098	10.0	Bridge over river south at Stanton.
Norfolk (Karl Stefan Mem)	109.6/OFK	G	144	0.5	On runup pad for Rwy 31.
North Platte (North Platte Rgnl Airport Lee Bird Field)	117.4/LBF	G	013	5.5	On S edge of ramp 200' N of Twy B.
O'Neill	113.9/ONL	A/3000	119	13	Over triangle in road intersection.
Omaha (Eppley Airfield)	116.3/OVR	A/2500	310	10.2	Over apch end Rwy 32L.
Scottsbluff (William B. Heilig Fld)	112.6/BFF	G	240	5.1	On NE edge ramp opposite terminal bldg & W of twy to Rwy 30.
Searle (Searle Field)	110.2/SAE	A/4800	030	7.2	Over flood-ctl spillway SE end of Lake McConaughy.
Thedford (Thomas Co)	108.6/TDD	A/4000	090		Over apch end Rwy 11.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

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Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Omaha (Eppley Airfield)	109.0	G	

NORTH DAKOTA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Bismarck (Bismarck Muni)	116.5/BIS	G	262	3.0	On Twy C5.
Dickinson (Dickinson-Theodore Roosevelt Rgnl)	112.9/DIK	G	182	3.7	Twy B near ramp.
Fargo (Hector Intl)	116.2/FAR	A/2000	360	9.4	Over apch end Rwy 36.
Grand Forks (Grand Forks Intl)	114.3/GFK	G	157	1.0	On twy A5.
Jamestown (Jamestown Rgnl)	114.5/JMS	G	141	0.6	On twy strip adjacent to Rwy 31.
Minot	117.1/MOT	A/2800	091	6.5	Over railroad and highway overpass.

SOUTH DAKOTA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Brookings	108.8/BKX	A/3000	072	7.5	Over grain elevator.
Mitchell (Mitchell Muni)	109.2/MHE	A/2500	238	11.0	Over intersection of highways ½ NM south of town of Mt. Vernon.
	109.2/MHE	G	194	0.5	On main ramp.
Phillip	108.4/PHP	A/3300	156	4.7	Over radio twr.
Pierre (Pierre Rgnl)	112.5/PIR	G	251	5.5	On twy in front of terminal building. VOR Checkpoint unusable.
Rapid City (Rapid City Rgnl)	112.3/RAP	G	320	4.5	On ramp in front of administration building adjacent to center twy.
Sioux Falls	115.0/FSD	A/2500	009	6.9	Over water twr in Baltic S.D.
Sioux Falls (Joe Foss Field)	115.0/FSD	G	143	4.3	At intersection of E/W twy and east ramp.
Watertown (Watertown Muni)	116.6/ATY	G	184	3.8	On SE corner of terminal ramp.
Winner	112.8/ISD	A/3100	204	8.6	Over blue water tank S edge of town.

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
IOWA			
(c) Boone Muni Arpt.....	37 NM; 293° Newton.....	15,000	6 NM radius. Continuous.
(c) Cherokee Co Rgnl	30 NM; 206° Spencer.....	12,500	5 NM radius. Summer continuous, winter weekends and holidays SR-SS
(c) Dallas Center, Husband Field.....	25 NM; 305° Des Moines	12,800	3 NM radius. Weekends and holidays
Davenport	13 NM; 258° Davenport	12,500	2 NM radius. Daily
Decorah Arpt	15 NM; 264° Waukon	7,000 AGL	Summer, Tue-Thu 1700-SS, Sat-Sun 1000-SS. Winter, 1000-SS Sat, Sun.
Fairfield Muni Arpt	16 NM; 079° Ottumwa.....	12,500	5 NM radius. Sat, Sun and holidays SR-SS.
Marion Arpt	14 NM; 047° Cedar Rapids	15,000 AGL	3 NM radius. Continuous.
(c) New Hampton Muni Arpt	32 NM; 359° Waterloo.....	15,000 AGL	1 NM radius. Daily.
(c) Northwood Muni Arpt.....	22 NM; 010° Mason City.....	11,500	5 NM radius. Apr-Oct, Sat-Sun SR-SS.
Perry Muni.....	33 NM; 310° Des Moines	12,500	3 NM radius. Weekends and holidays
Sioux City	13 NM; 285° Sioux City	10,000	0.5 NM radius. 0800-2000 daily
(c) Vinton Veterans Mem Airpark Arpt...	24 NM; 330° Cedar Rapids	15,000	5 NM radius. Continuous.
(c) Waterloo, Flyers Arpt.....	10 NM; 140° Waterloo.....	12,000	3 NM radius. Summer continuous, winter weekends and holidays SR-SS.
(c) Winterset-Madison Co Arpt.....	17 NM; 248° Des Moines	14,000	5 NM radius. SR-SS daily.
KANSAS			
Atchison, Amelia Earhart Arpt	26.2 NM; 199° St Joseph	12,500	5 NM radius. Continuous.
(c) Baldwin City, Vinland Valley Aerodrome Arpt	24 NM; 130° Topeka	13,000	5 NM radius. Sat-Sun Continuous.
(c) Derby, Cook Airfield Inc.	23 NM; 110° Wichita	13,500	5 NM radius. Daily.
(c) Junction City, Ft. Riley, Marshall AAF	6.3 NM; 034° Ft. Riley	10,000	1 NM radius. Daily SR-SS
(c) Kingman, Kingman Arpt-Clyde Cessna Fld	22 NM; 195° Hutchinson	15,000	1 NM radius. Fri, Sat, Sun and holidays, SR-SS.
(c) Lyons-Rice Co Muni Arpt	24.7 NM; 317° Hutchinson	14,000	5 NM radius. Continuous.
Osage Muni	26 NM; 030° Emporia.....	12,000	2 NM radius. Sat-Sun, SR-SS.
St Francis, Cheyenne County Muni	22.9 NM; 336° Goodland	16,000	3 NM radius Continuous.
Salina	20 NM; 247° Salina	2,700	0.3 NM radius. Occasional use
(c) Suppesville	18 NM; 200° Wichita	15,000	5 NM radius. Sat-Sun and holidays, SR-SS.
(c) Topeka, Mesa Verde Arpt	9 NM; 267° Topeka	13,000 AGL	2 NM radius weekdays 1600-SS weekdays SR-SS weekends and holidays.
(c) Wamego Muni Arpt	19.4 NM; 075° Manhattan	11,000	5 NM radius. Continuous.
Wichita, Maize Arpt	7 NM; 070° Wichita	11,500	1 NM radius. Continuous.
(c) Wichita, Sauerman Field	14NM; 253° Wichita.....	13,000	5 NM radius. Continuous.

PARACHUTE JUMPING AREAS

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LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
MINNESOTA			
Duluth	5 NM; 120° Duluth	10,000	Jun-Aug, Fridays 1800-2030
(c) Hutchinson Muni—Butler Fld Arpt ...	14 NM; 160° Darwin	13,000	5 NM radius. 0800-2359 daily.
Waseca Muni	11 NM; 223° Halfway	15,000	5 NM radius. Continuous.
MISSOURI			
(c) Butler Mem Arpt	7 NM; 074° Butler	13,000	5 NM radius. Sat-Mon 0500-2200.
(c) Charleston, Mississippi Co Arpt	25 NM; 150° Cape Girardeau	13,000	2 NM radius SR-SS weekends and holidays.
(c) Elton Hensley Mem Arpt	10 NM; 078° Columbia	12,000	5 NM radius. Daily 0700-1900.
(c) Kimberling Airways Arpt	22 NM; 323° Harrison	10,000	2 NM radius. SR-SS Mon-Sat.
(c) Lexington Muni Arpt	13 NM; 048° Napoleon	12,500 AGL	SR-SS Sat, Sun, holidays & weekday evenings.
(c) Mt Vernon Muni Arpt	31.5 NM; 235° Springfield	15,000	2 NM radius. Daily SR-SS. Springfield-Branson Natl Twr 124.95
Neosho	28.7 NM; 337° Neosho	10,000	
(c) Sullivan Rgnl Arpt	26 NM; 073° Vichy	15,000	5 NM radius. SR-SS weekends. Occasional ngt and weekdays.
NEBRASKA			
(c) Blair Muni Arpt	23 NM; 310° Omaha	14,000	2 NM radius. Sat-Sun SR-SS. Omaha App/Dep Con 120.1
(c) Crete Muni Arpt	22 NM; 195° Lincoln	14,500	2 NM radius. Continuous. Lincoln App/Dep Con 124.0 (1130-0600Z) Mineapolis Center 128.75 (0600-1130Z)
Mc Cook Rgnl Arpt	2 NM; 363° Mc Cook	10,500	2 NM radius Mon-Fri 1600-SS and Sat-Sun 0800-SS.
(c) Weeping Water, Browns Arpt	27 NM; 090° Lincoln	14,000	3 NM radius. Apr-Oct, SR-30 min after SS, daily; Oct-Apr, SR-30 min after SS, weekends and Federal holidays.
NORTH DAKOTA			
(c) West Fargo Muni Arpt	9 NM; 335° Fargo	13,500	1 NM radius. SR-SS Weekends. Occasional nights and weekdays.

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

BILLINGS SECTIONAL

78th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 2409' MSL (310' AGL) UC, 46°33'37"N, 101°12'48"W.

Add obst 1981' MSL (295' AGL) UC, 46°23'06"N, 100°37'17"W.

Add obst 2361' MSL (260' AGL) UC, 47°34'40"N, 100°36'13"W.

Add obst 2237' MSL (260' AGL) UC, 47°24'38"N, 100°35'22"W.

Add obst 2437' MSL (260' AGL) UC, 46°31'55"N, 101°33'11"W.

AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete MORGAN arpt, 49°00'00"N, 107°49'32"W.

Delete DORBRINSKI arpt, 47°53'52"N, 101°51'17"W.

Delete LOHSE arpt, 48°34'43"N, 103°27'59"W.

BELLE CREEK arpt abandoned, 45°07'30"N, 105°05'32"W.

NAVAIDS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete PARSHALL NDB, 47°56'10"N, 102°08'14"W.

AIRSPACE

27 Aug 2009 No Major Changes.

22 Oct 2009 Add PLENTYWOOD, MT Class E: That airspace extending upward from 700 feet above the surface within a 6.8-mile radius of Plentywood Sher-Wood Airport; and that airspace extending upward from 1,200 feet above the surface of the earth bounded by a line beginning at 49°00'00"N, 105°02'00"W; to 49°00'00"N, 104°02'00"W; to 48°32'35"N, 104°02'00"W; to 48°27'00"N, 104°11'12"W; to 48°40'00"N, 105°02'00"W; thence to the point of origin.

SPECIAL USE AIRSPACE

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 – 22 Oct 2009 No Major Changes.

CG-19 WORLD AERONAUTICAL CHART

39th Edition, 4 Jun 2009

OBSTRUCTIONS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

AIRPORTS

2 Jul 2009 Add arpt elev 1071, lighting code *L, runway length 71 and unicom at GLENDALE arpt, 33°31'36"N, 112°17'42"W.

22 Oct 2009 No Major Changes.

NAVAIDS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

AIRSPACE

2 Jul 2009 – 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 – 22 Oct 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

CHEYENNE SECTIONAL
80th Edition, 30 Jul 2009**OBSTRUCTIONS**

27 Aug 2009 Add windmill farm. 6365'UC is highest MSL, 43°04'40"N, 105°50'43"W.

Add obst 6988'MSL (407'AGL)UC, 41°08'23"N, 104°59'52"W.

22 Oct 2009 Add obst 7523'MSL (263'AGL)UC, 41°39'15"N, 106°04'16"W.

Add obst 7508'MSL (391'AGL)UC, 41°40'22"N, 105°59'52"W.

Add obst 5157'MSL (258'AGL)UC, 42°41'04"N, 103°55'53"W.

AIRPORTS

27 Aug 2009 – 22 Oct 2009 No Major Changes.

NAVAIDS

27 Aug 2009 Delete ANTELOPE NDB, 41°36'N, 109°00'06"W.

22 Oct 2009 No Major Changes.

AIRSPACE

Aug 27 2009 Add RUSHVILLE, NE Class E: That airspace extending upward from 700 feet above the surface within a 7.3-mile radius of Modisett airport.

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 – 22 Oct 2009 No Major Changes.

CHICAGO SECTIONAL
79th Edition, 22 Oct 2009**OBSTRUCTIONS**

22 Oct 2009 No Major Changes.

AIRPORTS

22 Oct 2009 No Major Changes.

NAVAIDS

22 Oct 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 No Major Changes.

GREEN BAY SECTIONAL
78th Edition, 4 Jun 2009**OBSTRUCTIONS****2 Jul 2009** Add obst 1189'MSL (260'AGL)UC, 44°26'06"N, 87°44'04"W.

Add obst 1120'MSL (320'AGL)UC, 44°14'18"N, 88°57'34"W.

Add obst 1371'MSL (320'AGL)UC, 44°53'14"N, 88°53'35"W.

Add obst 1402'MSL (278'AGL)UC, 45°19'53"N, 91°42'24"W.

Add obst 1289'MSL (310'AGL)UC, 44°15'58"N, 89°13'31"W.

Add obst 1974'MSL (320'AGL)UC, 45°43'10"N, 89°08'14"W.

27 Aug 2009 Add obst 1070'MSL (270'AGL)UC, 44°38'29"N, 91°59'35"W.

Add obst 1584'MSL (280'AGL)UC, 45°27'05"N, 91°57'04"W.

Add obst 1609'MSL (320'AGL)UC, 45°16'05"N, 91°51'33"W.

22 Oct 2009 Add obst 1796'MSL (420'AGL)UC, 47°24'20"N, 92°17'06"W.**AIRPORTS****2 Jul 2009** Delete RAMSY FARM arpt, 45°50'19"N, 87°19'20"W.

Delete PEIL'S VERMILLION WINGS spb, 47°53'07"N, 92°24'180"W.

27 Aug 2009 No Major Changes.**22 Oct 2009** Delete FONTECCHIO arpt, 45°47'05"N, 88°04'05"W.**NAVAIDS****2 Jul 2009 – 27 Aug 2009** No Major Changes.**22 Oct 2009** Delete MANITOWISH NDB, 46°07'23"N, 89°52'58"W.**AIRSPACE****2 Jul 2009 – 27 Aug 2009** No Major Changes.**22 Oct 2009** Revise IRONWOOD, MI. Class E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of Gogebic Iron County Airport and within 3.2 miles each side of the Ironwood VORTAC 104° radial extending from the 6.6-mile radius to 11.7 miles southeast of the VORTAC, and within 2.4 miles each side of the Ironwood VORTAC 260° radial extending from the 6.6-mile radius to 7 miles west of the VORTAC and within 4 miles each side of the 090° bearing from the airport extending from the 6.6-mile radius to 11.4 miles east of the airport; and that airspace extending upward from 1,200 feet above the surface within a 21-mile radius of the Ironwood VORTAC.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

KANSAS CITY SECTIONAL

82nd Edition, 4 Jun 2009

OBSTRUCTIONS

2 Jul 2009 Add obst 1308' MSL (358' AGL) UC, 38°14'23"N, 94°56'37"W.

Add obst 1682' MSL (310' AGL) UC, 37°02'18"N, 93°34'31"W.

Add obst 1012' MSL (265' AGL) UC, 39°36'08"N, 93°06'18"W.

Change obst from 1656' MSL (741' AGL) to 1949' MSL (1034' AGL), 38°21'40"N, 90°32'55"W.

Add obst 1129' MSL (290' AGL) UC, 38°47'46"N, 91°21'16"W.

27 Aug 2009 Add obst 1265' MSL (290' AGL) UC, 37°32'46"N, 90°12'37"W.

Add obst 560' MSL (260' AGL) UC, 36°40'24"N, 89°58'57"W.

Add obst 1516' MSL (260' AGL) UC, 37°39'55"N, 91°35'29"W.

Add obst 1490' MSL (320' AGL) UC, 36°27'39"N, 94°27'12"W.

Add obst 995' MSL (260' AGL) UC, 39°04'38"N, 90°50'02"W.

22 Oct 2009 Add obst 1635' MSL (305' AGL) UC, 36°27'17"N, 93°25'52"W.

Add obst 1641' MSL (238' AGL), 37°59'00"N, 96°52'21"W.

Add obst 934' MSL (520' AGL), 38°06'35"N, 90°15'30"W.

Add obst 1197' MSL (260' AGL), 37°44'20"N, 90°30'11"W.

Add obst 1025' MSL (275' AGL), 37°21'50"N, 90°41'52"W.

Add obst 1187' MSL (255' AGL) UC, 36°46'11"N, 96°12'35"W.

Add obst 1481' MSL (310' AGL) UC, 37°49'56"N, 91°33'28"W.

AIRPORTS

2 Jul 2009 Delete MARTIN arpt, 39°25'01"N, 90°35'09"W.

Delete JOAN LAKE arpt, 38°12'30"N, 90°52'00"W.

Delete SONTIMER arpt, 38°48'30"N, 90°36'45"W.

27 Aug 2009 Change CTAF 122.825 to 123.0 at BARTLESVILLE arpt, 36°45'51"N, 96°00'40"W.

Delete SMITH arpt, 39°18'47"N, 90°16'40"W.

22 Oct 2009 No Major Changes.

NAVAIDS

2 Jul 2009 No Major Changes.

27 Aug 2009 Delete MOSBY NDB, 39°20'45"N, 94°18'27"W.

Shutdown EL DORADO NDB, 37°46'46"N, 96°48'59"W.

22 Oct 2009 Shutdown BILMART NDB, 36°58'11"N, 92°40'39"W.

AIRSPACE

2 Jul 2009 No Major Changes.

27 Aug 2009 Revise MOUNT STERLING, IL Class E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of Mount Sterling Municipal Airport.

Revise FULTON, MO Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Elton Hensley Memorial Airport and within 2.6 miles each side of the 069° bearing from the Guthrie NDB extending from the 6.5-mile radius of the airport to 7 miles northeast of the NDB, and within 2.6 miles each side of the 229° bearing from the NDB extending from the 6.5-mile radius of the airport to 7 miles southwest of the NDB.

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 – 27 Aug 2009 No Major Changes.

22 Oct 2009 Add SHIRLEY A MOA: Boundary beginning at 35°19'00"N, 92°38'00"W to 35°19'00"N, 93°12'00"W to 35°38'15"N, 93°35'00"W to 36°02'00"N, 93°13'00"W to 36°02'00"N, 93°06'15"W to 36°06'00"N, 93°06'15"W to 36°06'00"N, 92°38'00"W to the point of beginning. Altitude: 11,000' MSL to but not including FL 18,000'. Time of use: 0700-1200 and 1300-1700, Monday-Friday; other times by NOTAM. Controlling agency: Memphis Cntr. Frequency: 281.55.

Add SHIRLEY B MOA: Boundary beginning at 35°19'00"N, 92°38'00"W to 36°06'00"N, 92°38'00"W to 36°06'00"N, 92°07'11"W to 35°58'53"N, 91°46'00"W to 35°19'00"N, 92°02'00"W to the point of beginning. Altitude: 11,000' MSL to but not including FL 18,000'. Time of use: 0700-1200 and 1300-1700, Monday-Friday; other times by NOTAM. Controlling agency: Memphis Cntr. Frequency: 281.55.

MILITARY TRAINING ROUTES

2 Jul 2009 No Major Changes.

27 Aug 2009 IR 504 Revised

22 Oct 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

KANSAS CITY TERMINAL AREA CHART**69th Edition, 4 Jun 2009****OBSTRUCTIONS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRPORTS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****2 Jul 2009** No Major Changes.**27 Aug 2009** Delete MOSBY NDB, 39°20'45"N, 94°18'27"W.**22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

MEMPHIS SECTIONAL**83rd Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** Change MEF 1° to 1¹ in quadrant 33°30'00"N-34°00'00"N, 93°30'00"-94°00'00"W.

Add obst 798'MSL (420'AGL)UC, 32°05'24"N, 90°39'59"W.

Add obst 979'MSL (499'AGL)UC, 34°13'53"N, 93°16'47"W.

Add obst 495'MSL (330'AGL)UC, 33°39'16"N, 92°40'34"W.

Add obst 945'MSL (645'AGL)UC, 33°38'59"N, 93°48'43"W.

AIRPORTS**22 Oct 2009** Add RP 35 to TUNICA MUNI arpt, 34°41'06"N, 90°20'52"W.**NAVAIDS****22 Oct 2009** Shutdown PINHOOK NDB, 35°15'14"N, 88°12'15"W.

Change bearing 294° to 293° from HAMILTON VORTAC(HAB) 34°11'42"N, 88°00'45"W.

AIRSPACE**22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009** Change MEF 1° to 1¹ in quadrant 33°30'00"-34°00'00"N, 93°30'00"-94°00'00"W.

MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART

72nd Edition, 2 Jul 2009

OBSTRUCTIONS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

AIRPORTS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

NAVAIDS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

AIRSPACE

2 Jul 2009 – 27 Aug 2009 No Major Changes.

22 Oct 2009 Revise MINNEAPOLIS, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport.

SPECIAL USE AIRSPACE

2 Jul 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 – 22 Oct 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 – 22 Oct 2009 No Major Changes.

OMAHA SECTIONAL

80th Edition, 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 Add windmill farm 1845'UC is highest MSL, 43°37'10"N, 92°34'46"W.

22 Oct 2009 Add windmill farm 1512'UC is highest MSL, 43°01'38"N, 92°42'49"W.

Add obst 1658'MSL (420'AGL)UC, 43°40'38"N, 94°36'07"W.

Change windmill farm highest MSL from 1762'UC to 1823'UC, 43°45'01"N, 94°58'17"W.

Add obst 1727'MSL (350'AGL)UC, 42°44'34"N, 98°02'00"W.

Add obst 1853'MSL (350'AGL)UC, 42°36'24"N, 98°02'46"W.

Add windmill farm 2351'(389'AGL)UC is highest MSL, 44°02'12"N, 98°35'04"W.

Add obst 1645'MSL (350'AGL)UC, 41°13'39"N, 96°25'37"W.

Add obst 1721'MSL (310'AGL)UC, 40°19'55"N, 96°26'57"W.

Add obst 1566'MSL (310'AGL)UC, 40°27'50"N, 96°18'25"W.

Add obst 1712'MSL (254'AGL)UC, 41°48'58"N, 94°56'18"W.

Add obst 1359'MSL (318'AGL)UC, 40°28'16"N, 92°59'21"W.

Change obst from 1351'MSL (260'AGL)UC to 1418'MSL (320'AGL)UC, 40°52'53"N, 93°30'07"W.

Add obst 1131'MSL (259'AGL)UC, 41°23'37"N, 93°06'12"W.

Add windmill farm 1545'UC is highest MSL, 42°05'02"N, 93°16'32"W.

AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete LAMBERT FECHTER arpt, 43°09'51"N, 95°28'12"W.

NAVAIDS

27 Aug 2009 No Major Changes.

22 Oct 2009 Shutdown HARLAN NDB, 41°34'44"N, 95°20'28"W.

Shutdown ATLANTIC NDB, 41°24'14"N, 95°02'47"W.

AIRSPACE

27 Aug 2009 No Major Changes.

22 Oct 2009 Revise IOWA FALLS, IA Class E: That airspace extending upward from 700 feet above the surface within a 6.3-mile radius of Iowa Falls Municipal Airport and within 2.6 miles each side of the 154° bearing from the Iowa Falls NDB extending from the 6.3-mile radius to 7.4 miles southeast of the airport.

Revise ORD, NE Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Evelyn Sharp Field Airport and within 4 miles each side of the 316° bearing from the airport extending from the 6.5-mile radius to 11.5 miles northwest of the airport.

Revise ANKENY, IA Class E: That airspace extending upward from 700 feet above the surface within a 7.1-mile radius of Ankeny Regional Airport, and within 2 miles each side of the 045° bearing from the airport extending from the 7.1-mile radius to 9.3 miles northeast of the airport, and within 2 miles each side of the 012° bearing from the airport extending from the 7.1-mile radius to 11.1 miles north of the airport, excluding that portion within the Des Moines Class C airspace area.

SPECIAL USE AIRSPACE

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 No Major Changes.

22 Oct 2009 Change MEF 1st to 2nd in quadrant 43°30'-44°00'N, 94°30'95°00'.

ST. LOUIS SECTIONAL

80th Edition, 2 Jul 2009

OBSTRUCTIONS**2 Jul 2009** No Major Changes.**27 Aug 2009** Add obst 1144' MSL (258' AGL) UC, 38°42'07"N, 85°22'02"W.

Add obst 1328' MSL (350' AGL) UC, 37°37'05"N, 84°15'43"W.

Add obst 865' MSL (304' AGL) UC, 37°22'45"N, 88°39'47"W.

Add obst 1265' MSL (290' AGL) UC, 37°32'46"N, 90°12'37"W.

Add obst 560' MSL (260' AGL) UC, 36°40'24"N, 89°58'57"W.

Add obst 995' MSL (260' AGL) UC, 39°04'38"N, 90°50'02"W.

Add obst 792' MSL (270' AGL) UC, 37°38'14"N, 87°38'10"W.

Add obst 865' MSL (306' AGL) UC, 39°12'53"N, 87°20'48"W.

22 Oct 2009 Add obst 1224' MSL (300' AGL) UC, 39°44'58"N, 84°23'43"W.

Add obst 1629' MSL (285' AGL) UC, 36°04'48"N, 84°31'00"W.

Add obst 916' MSL (258' AGL) UC, 40°03'49"N, 87°42'44"W.

Add obst 934' MSL (520' AGL) UC, 38°06'35"N, 90°15'30"W.

Add obst 1197' MSL (260' AGL) UC, 37°44'20"N, 90°30'11"W.

Add obst 1025' MSL (275' AGL) UC, 37°21'50"N, 90°41'52"W.

Add obst 797' MSL (330' AGL) UC, 36°34'10"N, 88°50'13"W.

Add obst 754' MSL (320' AGL) UC, 36°47'55"N, 88°30'22"W.

AIRPORTS**2 Jul 2009** No Major Changes.**27 Aug 2009** Change CAPE GIRARDEAU ATCT freq 119.0 to 125.525, 37°13'31"N, 89°34'15"W.

Change CTAF 119.0 to 125.525 at CAPE GIRARDEAU arpt, 37°13'31"N, 89°34'15"W.

Delete O'NEAL arpt, 38°41'29"N, 87°33'08"W.

Change CTAF 122.9 to 123.05 at MC CREARY CO arpt, 36°41'43"N, 84°23'29"W.

Delete HEMP RIDGE arpt, 38°09'11"N, 85°07'08"W.

Delete SMITH arpt, 39°18'47"N, 90°16'40"W.

22 Oct 2009 Delete CLARK arpt, 40°11'40"N, 86°31'23"W.

Delete POWELL arpt, 36°02'40"N, 84°00'16"W.

Delete HIGGINBOTHAM arpt, 39°20'29"N, 87°31'53"W.

NAVAIDS**2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009** No Major Changes.**27 Aug 2009** Revise MOUNT STERLING, IL CLASS E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of Mount Sterling Municipal Airport.

Delete DAYTON Class C freq 127.65. Add DAYTON Class C freqs 118.425 and 127.225. Revise DAYTON Class C freq from 316.7 to 352.05.

22 Oct 2009 No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

ST. LOUIS TERMINAL AREA CHART

72nd Edition, 2 Jul 2009

OBSTRUCTIONS**2 Jul 2009** No Major Changes.**27 Aug 2009** Add obst 995' MSL (260' AGL) UC, 39°04'38"N, 90°50'02"W.**22 Oct 2009** No Major Changes.**AIRPORTS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

TWIN CITIES SECTIONAL

78th Edition, 2 Jul 2009

OBSTRUCTIONS**2 Jul 2009** No Major Changes.**27 Aug 2009** Add windmill farm. 2608' is highest MSL, 45°57'36"N, 98°58'15"W.**22 Oct 2009** Add obst 1580' MSL (305' AGL) UC, 45°20'57"N, 95°15'14"W.

Add obst 1981' MSL (295' AGL) UC, 46°23'06"N, 100°37'17"W.

Add obst 2414' MSL (340' AGL) UC, 48°52'37"N, 100°03'24"W.

Add obst 2514' MSL (340' AGL) UC, 48°56'57"N, 100°03'14"W.

Add obst 2361' MSL (260' AGL) UC, 47°34'40"N, 100°36'13"W.

Add obst 2237' MSL (260' AGL) UC, 47°24'38"N, 100°35'22"W.

Add obst 2238' MSL (260' AGL) UC, 47°32'29"N, 100°14'40"W.

Add obst 2334' MSL (310' AGL) UC, 47°23'02"N, 100°16'57"W.

Add windmill farm. 2118' is highest MSL, 48°30'23"N, 99°54'54"W.

AIRPORTS**2 Jul 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009 – 27 Aug 2009** No Major Changes.**22 Oct 2009** Revise MINNEAPOLIS, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

WICHITA SECTIONAL

83rd Edition, 30 Jul 2009

OBSTRUCTIONS**27 Aug 2009** Add obst 2930' MSL (350' AGL) UC, 39°50'12"N, 100°10'48"W.

Add obst 1665' MSL (310' AGL) UC, 37°57'55"N, 97°09'08"W.

Add obst 2636' MSL (350' AGL) UC, 39°49'30"N, 99°35'27"W.

22 Oct 2009 Add obst 1641' MSL (238' AGL), 37°59'00"N, 96°52'21"W.

Add obst 1782' MSL (260' AGL), 37°56'06"N, 97°51'53"W.

Add obst 1604' MSL (314' AGL), 37°30'30"N, 97°11'19"W.

Add obst 2978' MSL (350' AGL) UC, 36°19'02"N, 100°15'34"W.

Add obst 3298' MSL (315' AGL) UC, 38°55'12"N, 101°11'02"W.

Add obst 1588' MSL (320' AGL) UC, 37°29'57"N, 97°30'51"W.

AIRPORTS**27 Aug 2009** No Major Changes.**22 Oct 2009** Change CTA/UNICOM freq to 123.075 at STEARMAN arpt, 37°46'30"N, 97°06'47"W.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009** IR-526 Revised, IR-513 Revised, IR-504 Revised**22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES	
FACILITY NAME	CHART & PANEL
Frankfort, IL (LL40)	L-28H
Chicago App/Dep Con 133.1 285.6	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
USAF Academy Bullseye Aux Airstrip, CO (C09Ø)	L-10F
ASOS 118.325	
West Kentucky Airpark, KY (5KY3)	L-16I
Memphis Center App/Dep Con 133.65 292.15	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Gwinn Tower 120.4 314.6 (Mon-Fri 1300-2100Z‡)	
Gnd Con 121.65 279.25	
CANADA	
FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX)	H-1B, L-12F
ATIS 119.8 (1500-0700Z‡)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8	
MF 119.4 295.0 (0700-1500Z‡) (Shape irregular to 4500')	
Amos/Magny, QC (CYEY)	H-11B
Montreal Center App/Dep Con 125.9	
Atikokan Muni, ON (CYIB)	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
Barrie-Orillia (Lake Simcoe Rgnl), ON (CNB9)	H-11B, L-31D
AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 124.025	
Bar River, ON (CPF2)	L-31C
Toronto Center App/Dep Con 132.65	
Bathurst, NB (CZBF)	L-32J
Moncton Center App/Dep Con 134.25	
Boundary Bay, BC (CZBB)	H-1B, L-1E
ATIS 125.5 (1500-0700Z‡)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3	
MF 118.1 (0700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.)	
Brampton, ON (CNC3)	L-31D
Toronto Trml App/Dep Con 119.3 253.1	
Brandon Muni, MB (CYBR)	H-2H
Winnipeg Center App/Dep Con 132.25 285.4	
MF 122.1 (5 NM to 4000')	
Brantford, ON (CYFD)	L-31D
Toronto Trml App/Dep Con 128.27	
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)	L-32G
Montreal Center App/Dep Con 134.675	
Bromont, QC (CZBM)	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
Burlington Airpark, ON (CZBA)	L-31D
Toronto Center App/Dep Con 119.3 253.1	
Castlegar, BC (CYCG)	H-1C
Vancouver Center App/Dep Con 134.2 227.3	
MF 122.1 (5 NM to 6500')	
Centralia/James T. Fild Muni, ON (CYCE)	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	
Charlottetown, PE (CYYG)	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
Chatham-Kent, ON (CNZ3)	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	

FACILITY NAME	CHART & PANEL
Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
Digby, NS (CYID) Moncton Center App/Dep Con 123.9	L-32J
Downsview, ON (CYZD) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (3 NM to 1900')	H-11B, L-31E
Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35	L-32H
Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4	L-31C
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
Fredericton Intl, NB (CYFC) ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Cinc Del 121.7 (Ltd hrs) MF 119.0 (5 NM to 3500')	H-11E, L-32I
Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Cinc Del 128.05 283.9	H-11E, L-32J
Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Cinc Del 123.95 Apron Advisory 122.125	H-11E, L-32J
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z) MF 122.5 (1115-0400Z \pm 5 NM to 3300')	H-11C, L-31E, 32F
Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z \pm) Gnd Con 121.8 MF 126.0 (0400-1200Z \pm 5 NM to 4000')	H-11B, L-31D
Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-11C
Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E

FACILITY NAME	CHART & PANEL
Leamington, ON (CLM2) Cleveland Center App/Dep Con 132.45	L-30F
Lethbridge, AB (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
Lindsay, ON (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9	L-32J
London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57	L-32G
Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
Medicine Hat, AB (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
Midland/Huron, ON (CYEE) Toronto Center App/Dep 124.025	L-31D
Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57	L-32G
Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Cinc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
Muskoka, ON (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
North Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L31D
Oshawa, ON (CYOO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E

FACILITY NAME	CHART & PANEL
Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
Ottawa/Batineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep Con 132.575 290.6	L-31D
Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0	L-30F
Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
Penticton, BC (CYPF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep Con 134.25	H-11B, L-31E, 32F
Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2	H-1D
Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 (185.65 Quebec Trw VFR acft at or below 3000') Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
Riviere Du Loup, QC (CYRI) AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
Sarnia (Chris Hadfield), ON (CYZR) Toronto Center 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM) ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
Sherbrooke, QC (CYAM) AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275	L-31E, 32F
Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
Springwater Barrie Airport, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z± 5 NM to 3300')	H-10H, 11B, L-31E
St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z± Nov-Mar 1300-0200Z) Gnd Con 121.7	L-32G
Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
Summerside, PE (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
Thunder Bay, ON (CYQT) ATIS 128.8 (1100-0400Z) Winnipeg Center App/Dep Con 132.125 (0400-1100Z) Tower 118.1 (1100-0400Z) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z± 5 NM to 4000')	H-2J, L-14J
Timmins, ON (CYTS) ATIS 124.95 (1000-0500Z) Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	H-11B
Toronto/Buttonville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z) Gnd Con 121.8 MF 124.8 (0400-1200Z± No gnd station. 5 NM shape irregular to below 2500')	L-31E
Toronto/City Centre, ON (CYTZ) ATIS 133.6 (1130-0400Z) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 226.5 (1130-0400Z) Gnd Con 121.7	L-31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z) VFR Advisory 119.3 133.4	H-11B, L-31D
Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4	H-11C, L-31E, 32F
Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
Val-d'Or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z± 5 NM to 4000')	H-11B
Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Cinc Del 121.4	H-1B, L-1E

FACILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ) ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
Victoriaville, QC (CSR3) Montreal Center App Con 132.35	L-32H
Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
Warton, ON (CYVY) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

MEXICO

FACILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS) Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
Durango Intl (MMDO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Cinc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
Quetzalcoatl Intl (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
Torreon Intl (MMTC) App Con 119.6 Tower 118.5	H-7A









In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION





PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★. To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365  Date of latest change
 Orig 00365 

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

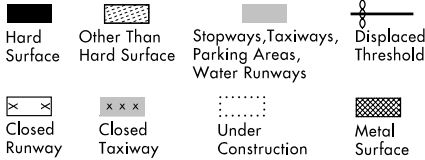
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LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM

Runways

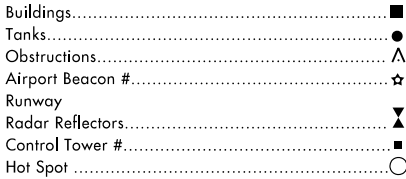


ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM

REFERENCE FEATURES



When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U

Helicopter Alighting Areas (circle with H, circle with H, square with H, triangle with H, square with H)

Negative Symbols used to identify Copter Procedures landing point..... (circle with H, square with H, triangle with H, square with H)

Runway Threshold elevation.....THRE 123

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.3% DOWN

(shown when runway slope is greater than or equal to 0.3%)

NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

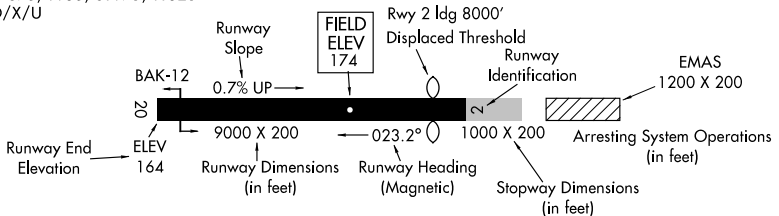
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FUP. (Foreign Only)



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary. A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HOT¹", "HOT²", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
IOWA		
CEDAR RAPIDS THE EASTERN IOWA (CID)	HOT ¹	Twy A crosses Rwy 13–31. Twy A is used frequently by vehicles and aircraft to transition to and from the west hangar/FBO area.
	HOT ²	Intersection of Rwy 13–31 and Rwy 9–27.
	HOT ³	Twy C becomes Twy A on the north side of the approach end of Rwy 27. Aircraft taxiing from the east hangars to Rwy 9 and Rwy 13 are required to cross Rwy 9–27.
DES MOINES DES MOINES INTS (DSM)	HOT ¹	Westbound tfc on Twy B must remain alert so as to not miss the right turn onto Twy D when taxiing to Rwy 13. Comply with rwy hold signs, sfc painted signs and elevated rwy guard lgts at the intersection of Twy B and Rwy 13–31.
	HOT ²	Use caution and comply with the signs and markings when taxiing near this complex intersection.
	HOT ³	The apch end of Rwy 5 at Twy P has limited visibility from the twr.
	HOT ⁴	Iowa ANG complex is located north of Twy D on the northwest part of the arpt. Vehicle movement in this area is obstructed from the tower's view. Be vigilant for vehicles while taxiing in the area.
FORT DODGE FORT DODGE RGNL (FOD)	HOT ¹	Westbound tfc on Twy B must remain alert at the intersection where Twy B splits with Twy D. Holding position markings for Rwy 6–24 and Rwy 12–30 are immediately after the twy split.
MASON CITY MASON CITY MUNI (MCW)	HOT ¹	Single twy leads to the apch end of Rwy 30 and Rwy 35. When departing northbound, cross check compass on rwy to verify use of correct rwy for departure.
SIoux CITY SIoux GATEWAY/ COLONEL BUD DAY FIELD (SUX)	HOT ¹	Rwy 17–35 and Rwy 13–31 intersect at Twy B. When departing northbound, cross check compass on rwy to verify use of correct rwy for departure.
	HOT ²	Twy A and Twy G are located in the movement area near the approach end of Rwy 31. Do not traverse from Twy A and G visa versa without ATC authorization.
WATERLOO WATERLOO RGNL (ALO)	HOT ¹	The intersection of Twy B and Twy C outbound holding position markings for Rwy 12–30 and Rwy 18–36 are immediately after the split of Twy B and Twy C.

	HOT ²	Twy A crosses the apch end of Rwy 36 prior to Rwy 6. When departing northbound, cross check compass on rwy to verify use of correct rwy for departure.
	HOT ³	Use caution exiting the ramp area on Twy B. Twy B intersects Rwy 6–24 immediately after leaving ramp area.
	HOT ⁴	Use caution when crossing Rwy 12–30 on Twy A inbound and outbound. Twy A is used as a pass through twy to the ANG hangar and Rwy 6–24.
KANSAS		
DODGE CITY DODGE CITY RGNL (DDC)	HOT ¹	Ramp is in close proximity to rwys.
GARDEN CITY GARDEN CITY RGNL (GCK)	HOT ¹	Twy C intersects Rwy 12–30 1300 feet from approach end. Back taxi clearance required for full length departure on Rwy 12.
	HOT ²	Use caution exiting the ramp area on Twy C. Twy C crosses Rwy 17–35 immediately after leaving ramp area. Pilots must use caution when exiting the rwy on Twy C, as the non-movement area boundary is on the twy prior to the ramp.
	HOT ³	While taxiing southbound on Twy A to Rwy 30, left turn on Twy B required to reach approach end of Rwy 30. If pilot is not extra vigilant, it is easy for an aircraft to miss the turn on Twy B and cross the active rwy.
HUTCHINSON HUTCHINSON MUNI (HUT)	HOT ¹	Twy A and Twy C intersect with multiple rwys.
	HOT ²	Twy B hold markings for Rwy 4 and Rwy 35 are very close. Use caution to hold short at proper hold marking.
LIBERAL LIBERAL MID-AMERICA RGNL (LBL)	HOT ¹	After leaving main ramp on Twy A northbound, use caution for traffic landing Rwy 22. Rwy 22 Rwy Boundary marking is on Twy A prior to the left turn on Twy B. Twy B is an extension of the Rwy 22 overrun. Rwy 17 Runway Boundary is on Twy A past Twy B. Use caution for close proximity approach ends of Rwy 17 and Rwy 22.
	HOT ²	Use caution exiting the ramp area on Twy C. Twy C intersects Rwy 17–35 immediately after leaving ramp area. Pilots must use caution when exiting the ramp and the rwy on Twy C, as Twy C is identified with blue reflectors.
MANHATTAN MANHATTAN RGNL (MHK)	HOT ¹	Use caution when taxiing to/from the terminal area via Twy D. Twy D is the primary entrance and exit from the main ramp and is in close proximity to Rwy 3–21.
	HOT ²	Use caution when taxiing northeast on Twy A to the east ramp. Do not mistake Rwy 13–31 for Twy E.
SALINA SALINA MUNI (SLN)	HOT ¹	Twy E crossing Rwy 17–35 is active with student pilot midfield departures. Note the elevated rwy guard lights located on the east side of Rwy 17–35 at Twy E.

TOPEKA FORBES FIELD (FOE)	HOT ²	Traffic landing Rwy 12 use caution when exiting onto Twy B. Hold line for Rwy 17–35 approaches quickly. Note the elevated rwy guard lights located on the west side of Rwy 17–35 on Twy B.
	HOT ¹	Southbound traffic on Twy A must remain alert so as to not miss the right turn on Twy A when taxiing to Rwy 3. Twy D continues to an intersection with Rwy 3. Twy A turns to the southwest.
	HOT ²	Use caution Twy A becomes Twy E just past access to the approach end of Rwy 3. Twy A turns left, Twy E continues southwest bound to the KS ANG ramp.
PHILIP BILLARD MUNI (TOP)	HOT ³	Twy E is not visible from the ATCT. Twy E also accesses KS ANG ramp and is not maintained by the Airport Authority.
	HOT ¹	Twy A and Twy D intersect inside of the Runway Safety Area for Rwy 4–22. Twy A intersects 4–22 at two different locations.
WICHITA WICHITA MID-CONTINENT (ICT)	HOT ¹	Twy R exits Air Carrier Gates & Ramps. Aircraft may enter Twy R from different directions at different angles.
	HOT ²	Twy B crosses or intersects all rwys. Intersection with Rwy 14–32 can be confusing.
	HOT ³	Twy K and Twy C complex on west side of the Air Carrier Ramp leads to Twy K1 intersection with Rwy 14–32 which is a common intersection departure point.
MISSOURI		
BRANSON BRANSON (BBG)	HOT ¹	Westbound traffic on Twy C must remain alert so as to not mistake Rwy 14–32 for a parallel twy. First left turn out of ramp area is Rwy 14–32.
	HOT ²	Use caution for aircraft utilizing Twy E and Twy F as a turn around after landing on Rwy 14 or taxiing to hold while waiting to depart Rwy 32. Back taxi required on Rwy 14–32 for full length departure on Rwy 32 and frequently utilized by aircraft landing Rwy 14.
KANSAS CITY KANSAS CITY INTL (MCI)	HOT ¹	Busy vehicle svc road crosses Twy G east of Twy B. Non-movement area begins just west of svc road.
	HOT ²	Twy E and Twy F intersection with Rwy 9–27. Immediately after crossing Twy C, both Twy E and Twy F cross Rwy 9–27.
	HOT ³	Twy C and Twy D intersection with Rwy 1R–19L. Immediately after crossing Twy E, both Twy C and Twy D cross Rwy 1R–19L.
	HOT ⁴	The intersection of Twy B–2 and Ottawa Ave. (vehicle svc road). Twy B–2 is the only entrance to the general aviation ramp. This svc road is a high traffic vehicle route for airlines and cargo carriers.
KIRKSVILLE KIRKSVILLE RGNL (IRK)	HOT ¹	Turf Rwy 9–27 taxi route enters Rwy 18–36 approximately 1000 feet south of the approach end of Rwy 18 between Twy A and Twy B.

ST. LOUIS
 LAMBERT-ST.
 LOUIS INTL. (STL)

HOT¹

Use caution when approaching the intersection of Twy D and Twy L be careful not to cross the hold marking for Rwy 12R-30L without ATC authorization.

HOT²

Aircraft approaching Rwy 29 on Twy T, do not turn left on Twy A. Taxi straight ahead to Rwy 29.

HOT³

Aircraft northwest on Twy F from the FBO or cargo ramp to Rwy 12L use diligence to not miss the left turn onto Twy S. If the left turn at Twy S is missed, do not cross the hold marking for Rwy 6-24 without ATC authorization.

ST. LOUIS
 SPIRIT OF ST. LOUIS (SUS)

HOT¹

Northwest bound t/c on Twy B use caution entering complex intersection with Twy Z, Twy D, and Twy C. The close proximity of Twy C and Twy D, immediately after the turn onto Twy Z can be confusing.

HOT²

On Twy B west of the blue port-a-ports, twr can not maintain visual contact with vehicles and small acft.

HOT³

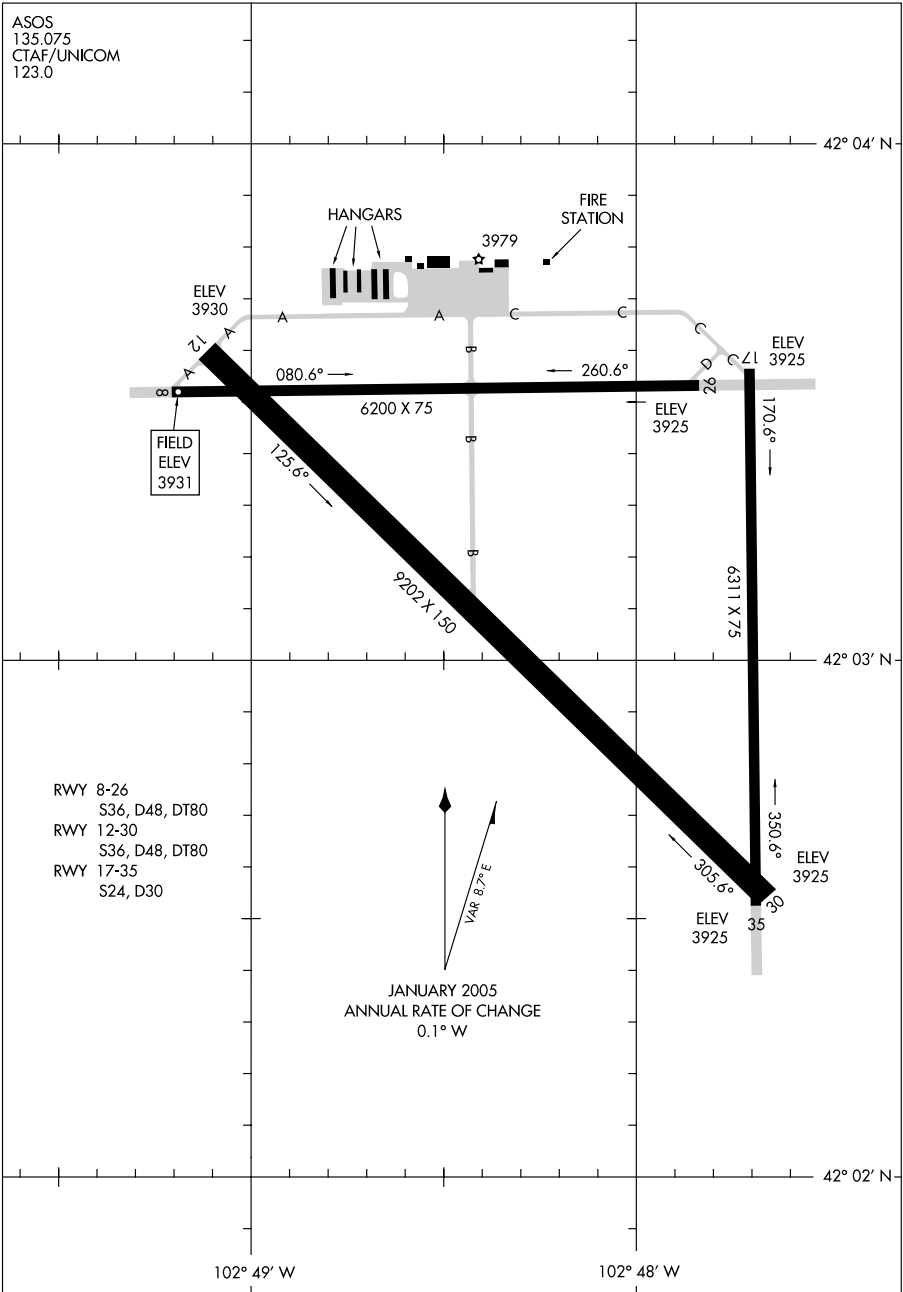
On Twy B northwest of Twy A, twr can not maintain visual contact with vehicles and acft.

09183

AIRPORT DIAGRAM

AL-16 (FAA)

ALLIANCE MUNI (AIA)
ALLIANCE, NEBRASKA



AIRPORT DIAGRAM

09183

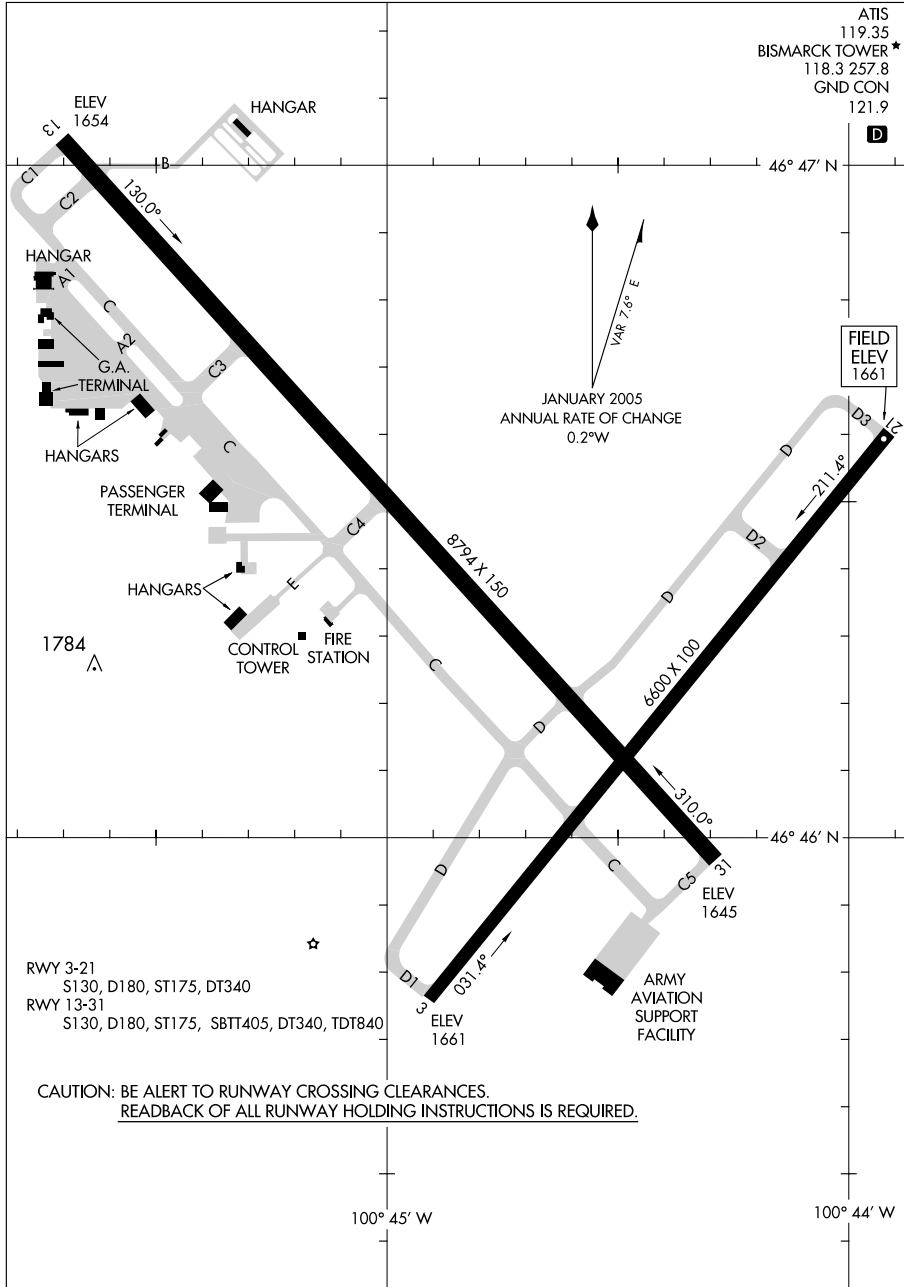
ALLIANCE, NEBRASKA
ALLIANCE MUNI (AIA)

09295

AIRPORT DIAGRAM

AL-51 (FAA)

BISMARCK MUNI(BIS)
BISMARCK, NORTH DAKOTA



AIRPORT DIAGRAM

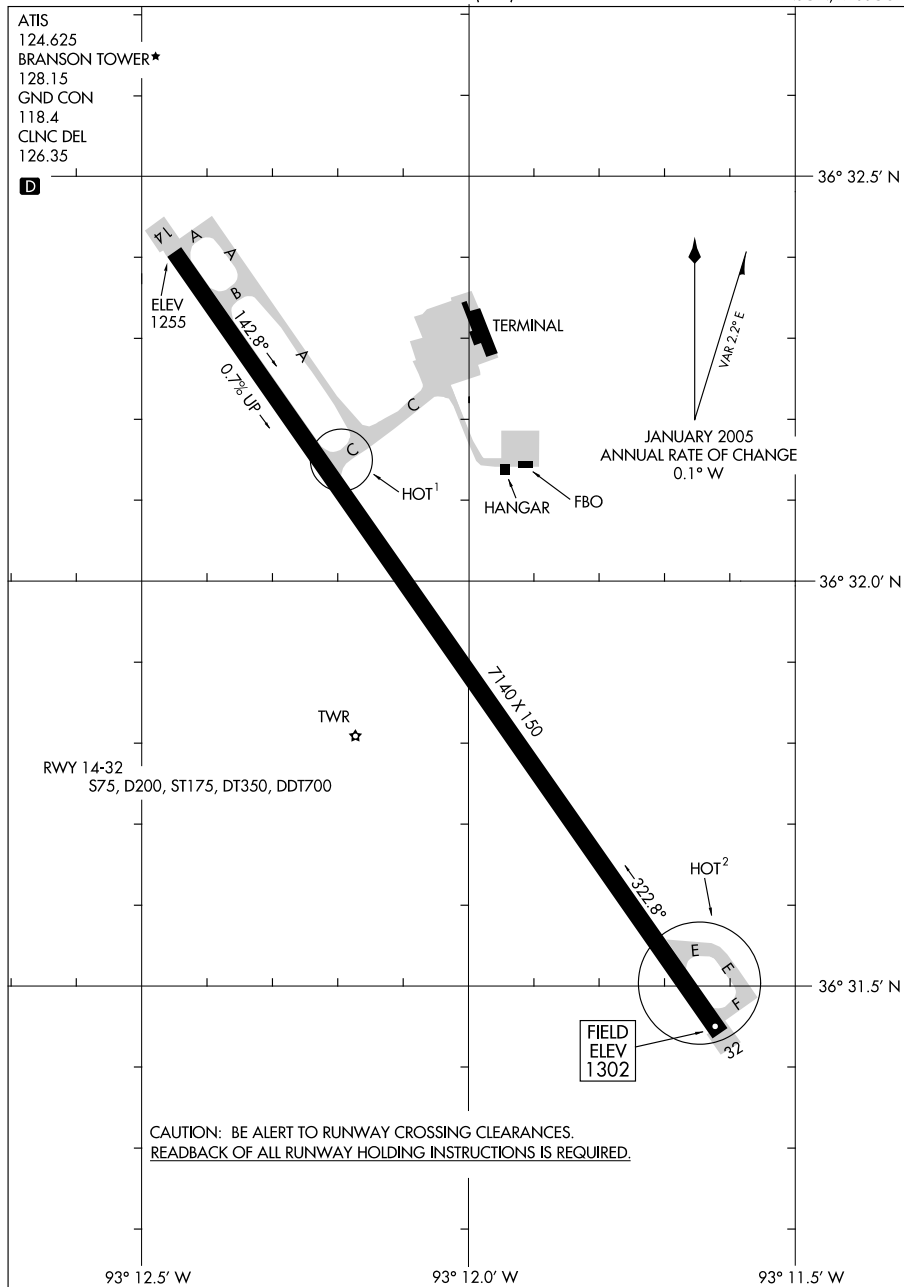
09295

BISMARCK, NORTH DAKOTA
BISMARCK MUNI (BIS)

09295

AIRPORT DIAGRAM

AL-10372 (FAA)

BRANSON (BBG)
BRANSON, MISSOURI

AIRPORT DIAGRAM

09295

BRANSON, MISSOURI
BRANSON (BBG)

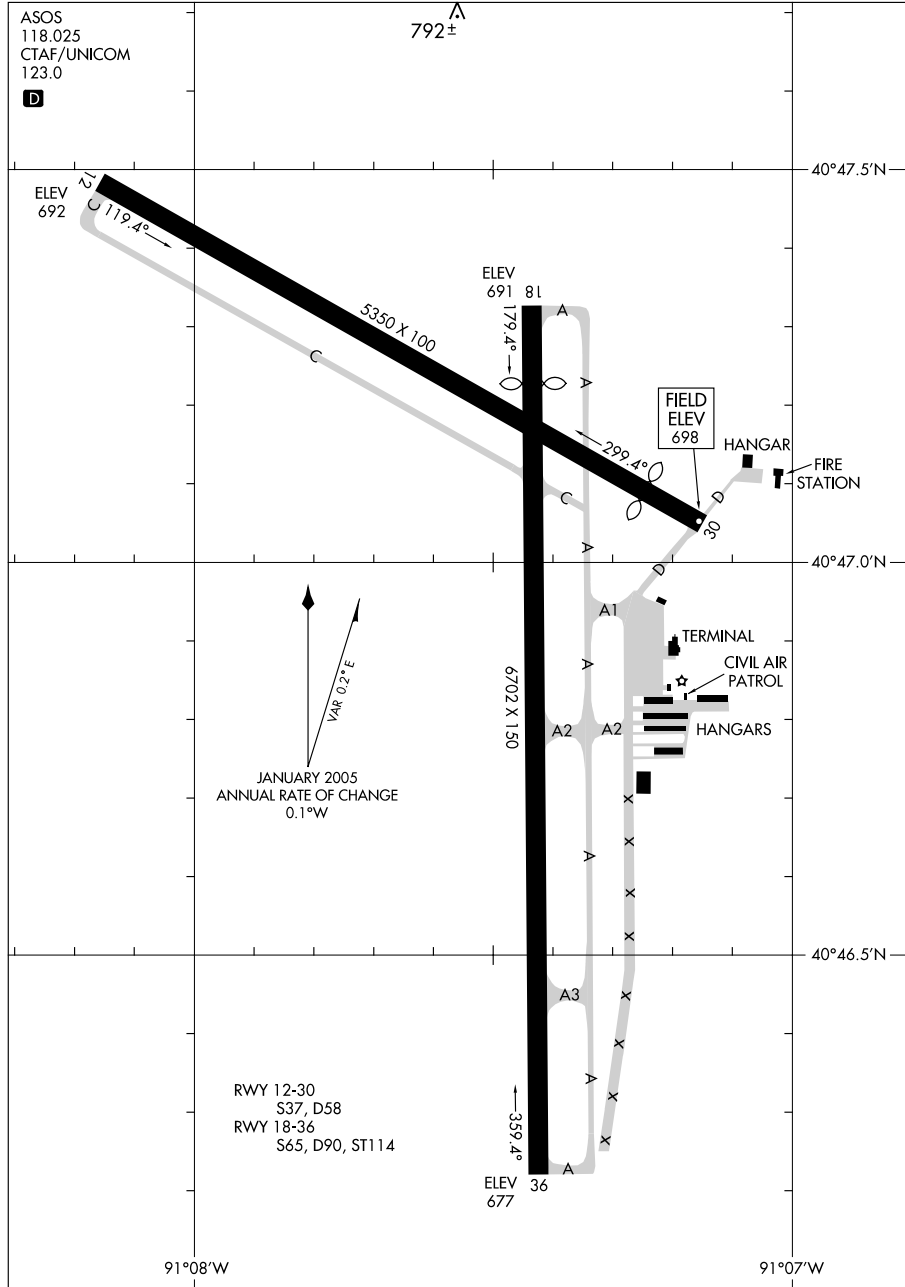
09071

AIRPORT DIAGRAM

BURLINGTON/SOUTHEAST IOWA RGNL (BRL)

AL-69 (FAA)

BURLINGTON, IOWA



AIRPORT DIAGRAM

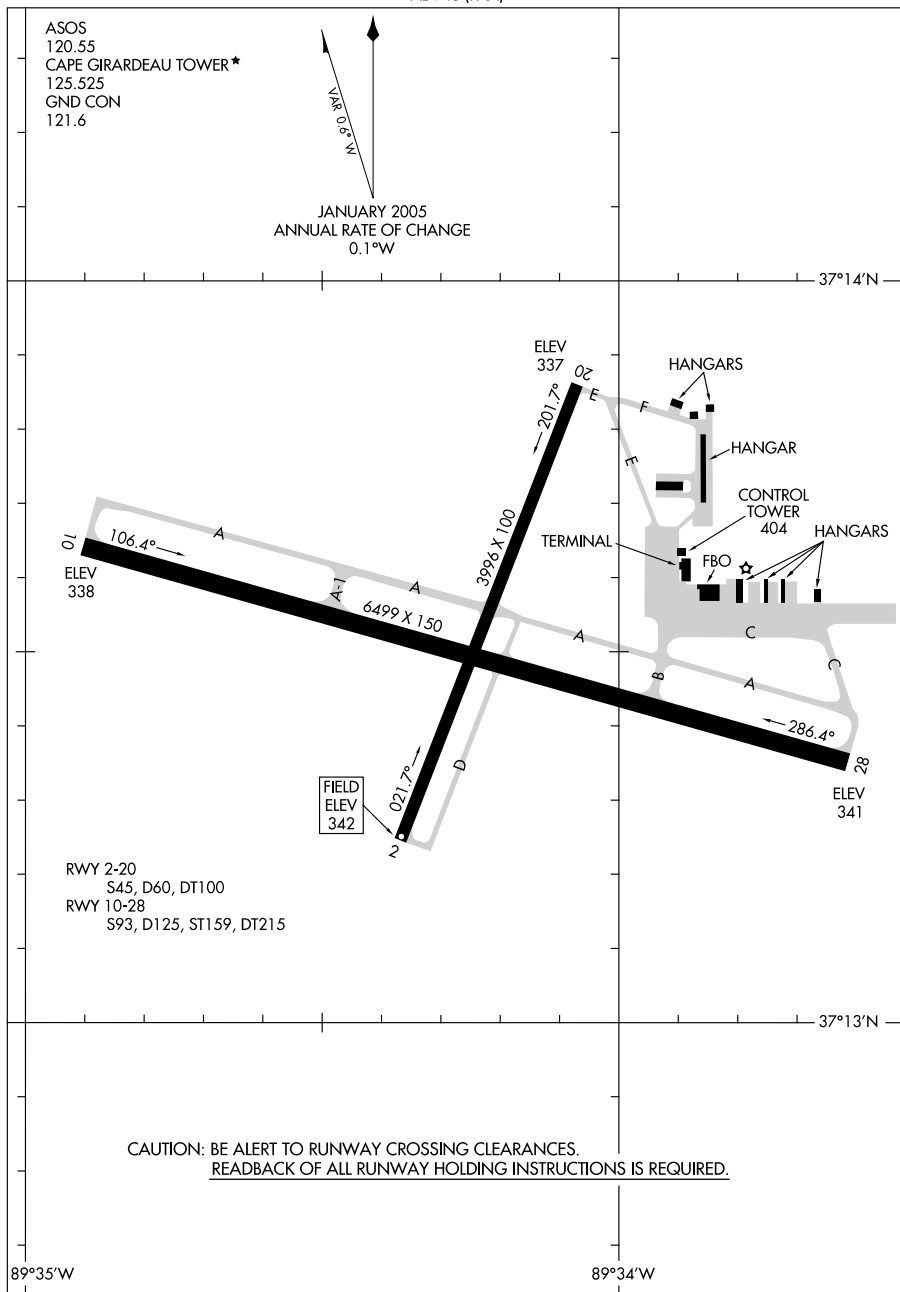
09071

BURLINGTON, IOWA
BURLINGTON/SOUTHEAST IOWA RGNL (BRL)

09295

AIRPORT DIAGRAM

AL-943 (FAA)

CAPE GIRARDEAU RGNL (CGI)
CAPE GIRARDEAU, MISSOURI

AIRPORT DIAGRAM

09295

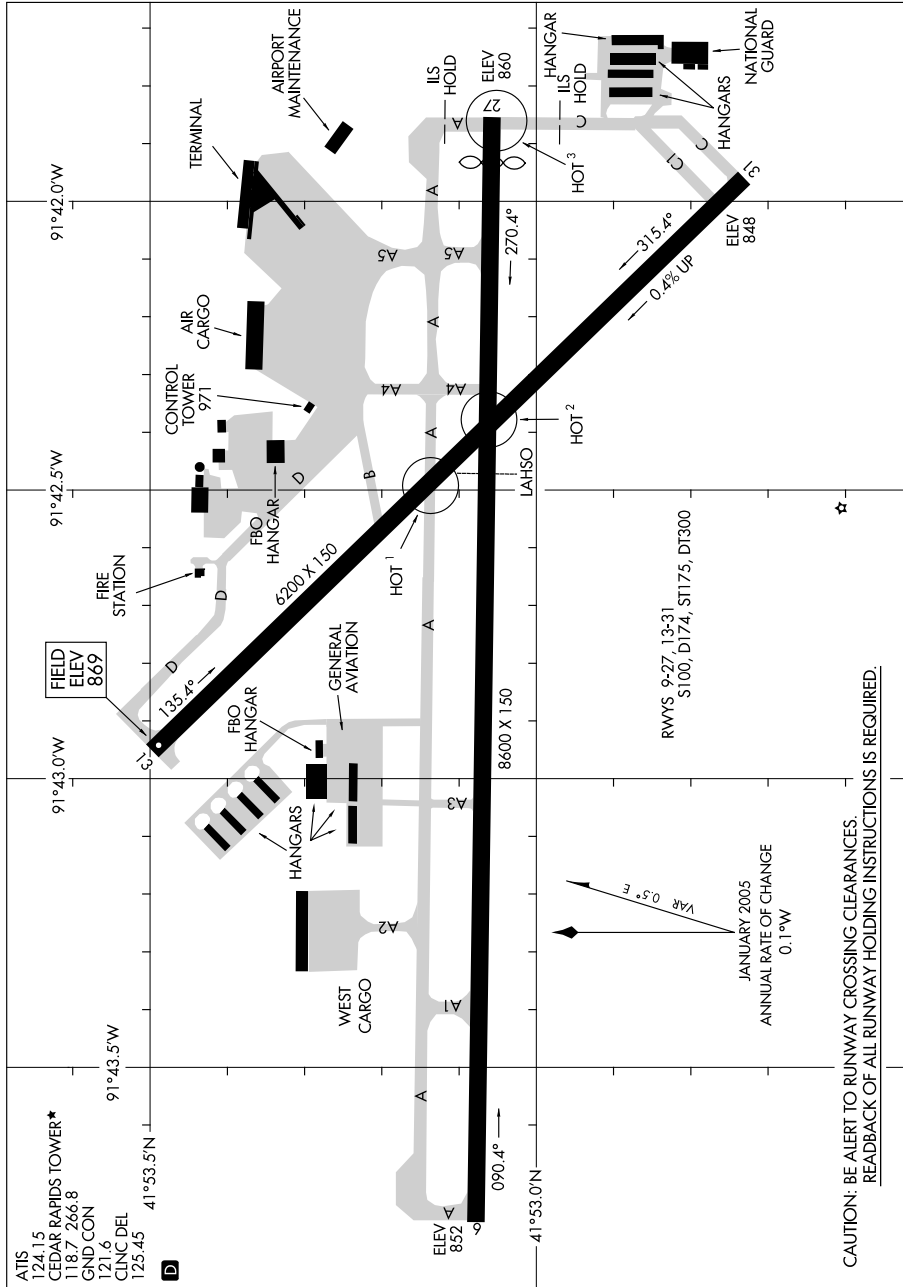
CAPE GIRARDEAU, MISSOURI
CAPE GIRARDEAU RGNL (CGI)

09239

AIRPORT DIAGRAM

CEDAR RAPIDS/THE EASTERN IOWA (CID)
CEDAR RAPIDS, IOWA

AL-250 (FAA)



AIRPORT DIAGRAM

09239

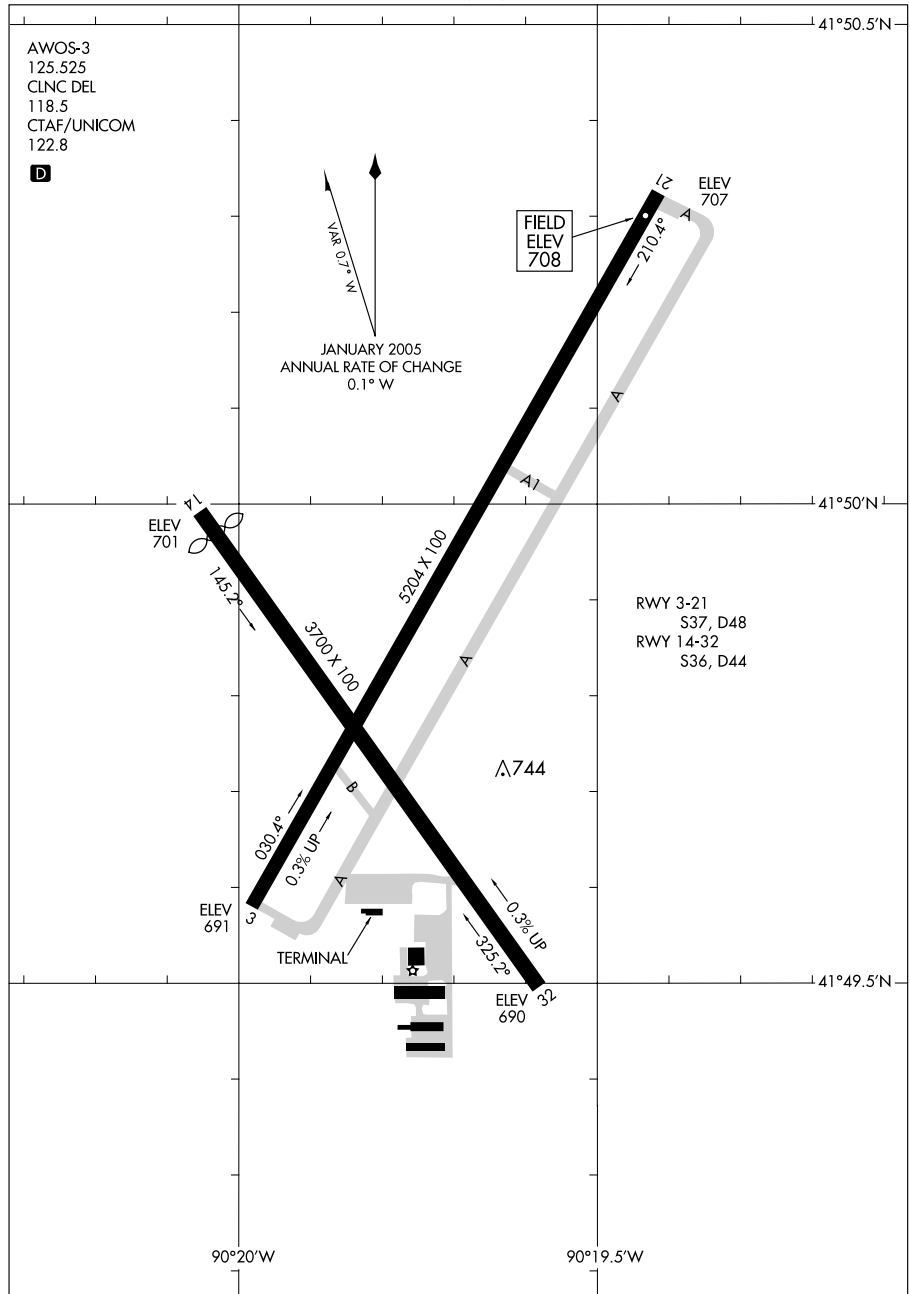
CEDAR RAPIDS, IOWA
CEDAR RAPIDS/THE EASTERN IOWA (CID)

09071

AIRPORT DIAGRAM

AL-972 (FAA)

CLINTON MUNI (CWI)
CLINTON, IOWA



AIRPORT DIAGRAM

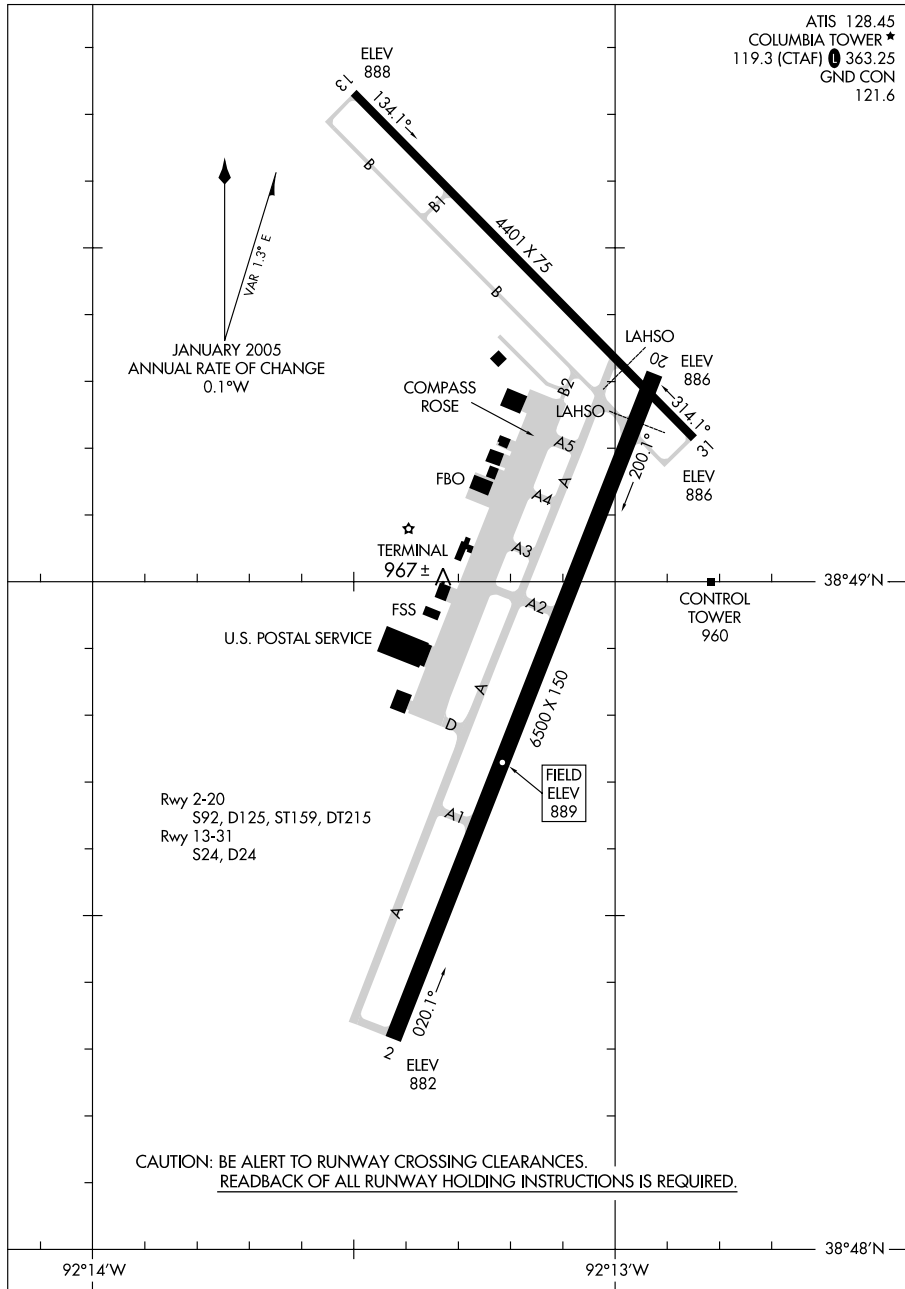
09071

CLINTON, IOWA
CLINTON MUNI (CWI)

07298

AIRPORT DIAGRAM

AL-5595 (FAA)

COLUMBIA RGNL (COU)
COLUMBIA, MISSOURI

AIRPORT DIAGRAM

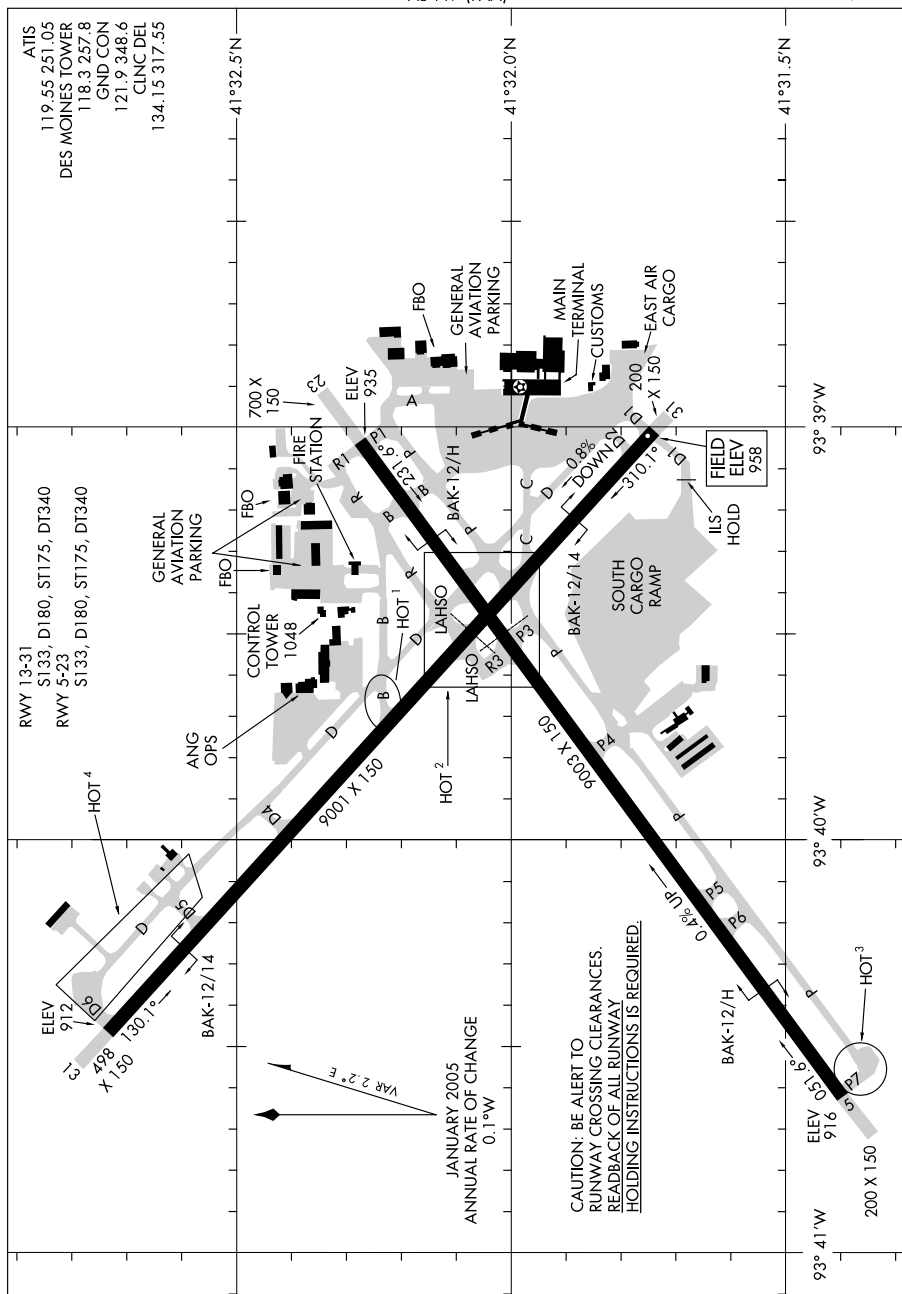
07298

COLUMBIA, MISSOURI
COLUMBIA RGNL (COU)

09295

AIRPORT DIAGRAM

AL-117 (FAA)

DES MOINES INTL (DSM)
DES MOINES, IOWA

AIRPORT DIAGRAM

09295

DES MOINES, IOWA
DES MOINES INTL (DSM)

09295

AIRPORT DIAGRAM

AL-676 (FAA)

DODGE CITY RGNL (DDC)
DODGE CITY, KANSAS

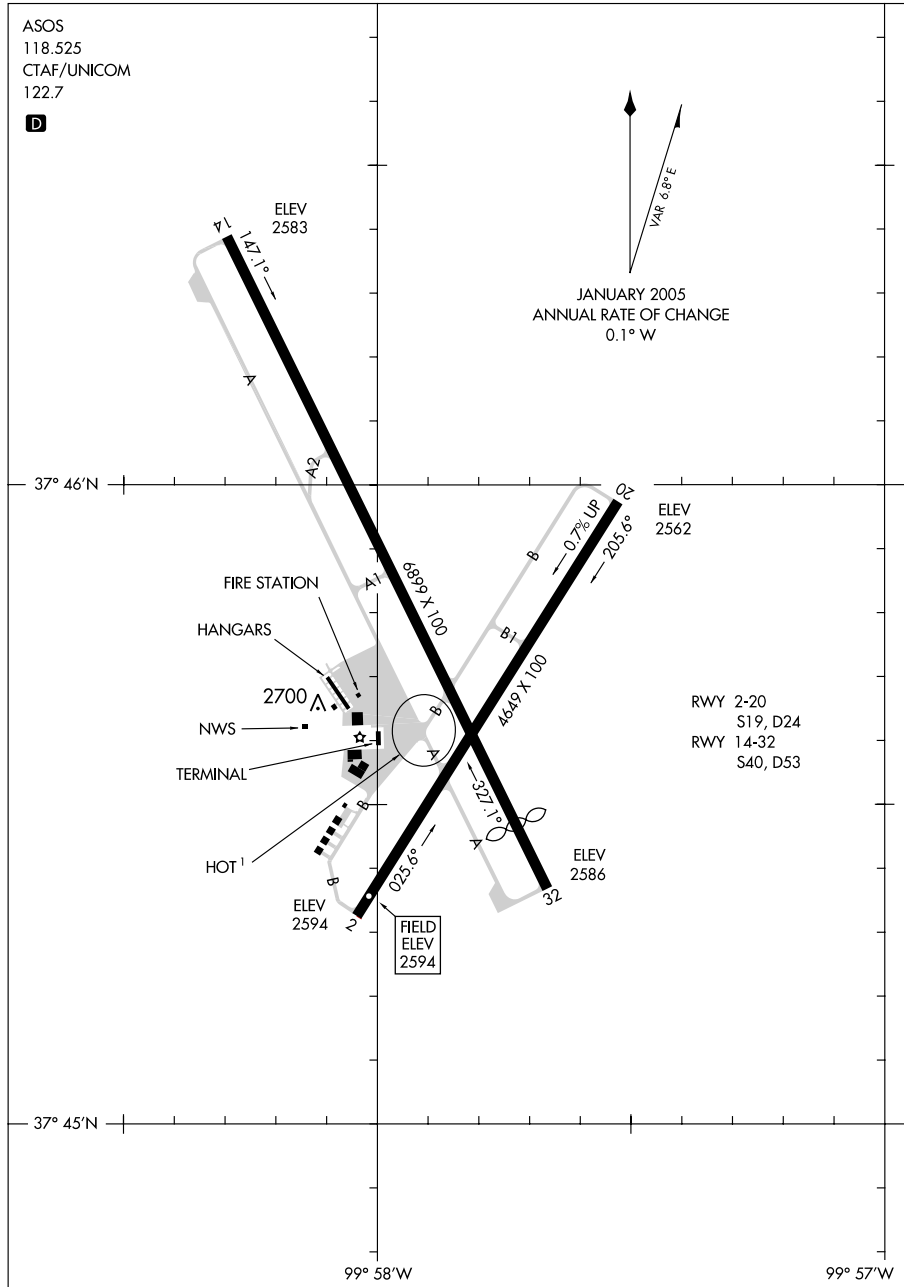
ASOS

118.525

CTAF/UNICOM

122.7

D



AIRPORT DIAGRAM

09295

DODGE CITY, KANSAS
DODGE CITY RGNL (DDC)

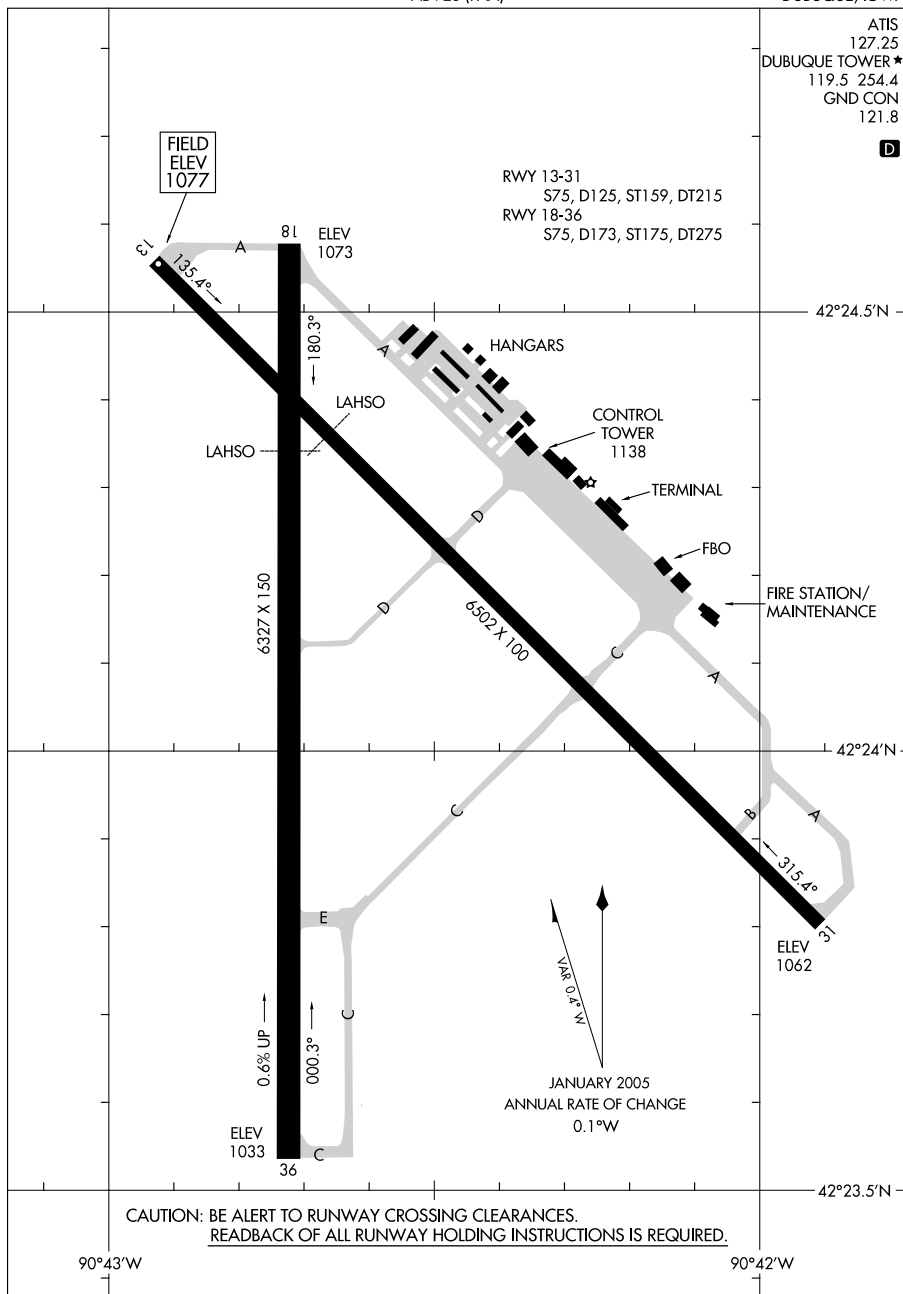
09071

AIRPORT DIAGRAM

AL-923 (FAA)

DUBUQUE RGNL (DBQ)

DUBUQUE, IOWA



AIRPORT DIAGRAM

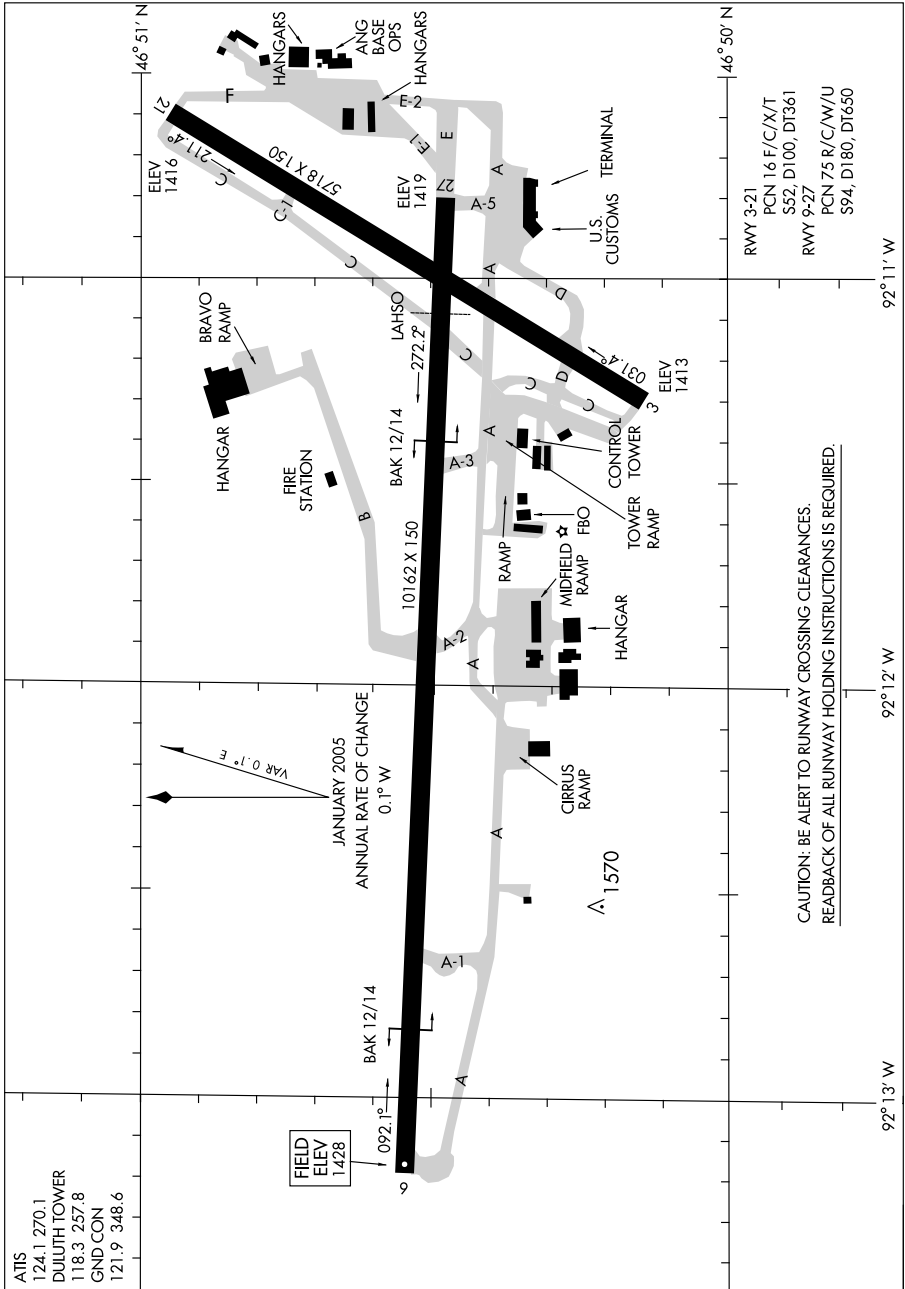
09071

DUBUQUE, IOWA
DUBUQUE RGNL (DBQ)

09071

AIRPORT DIAGRAM

AL-125 (FAA)

DULUTH INTL (DLH)
DULUTH, MINNESOTACAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

09071

DULUTH, MINNESOTA
DULUTH INTL (DLH)

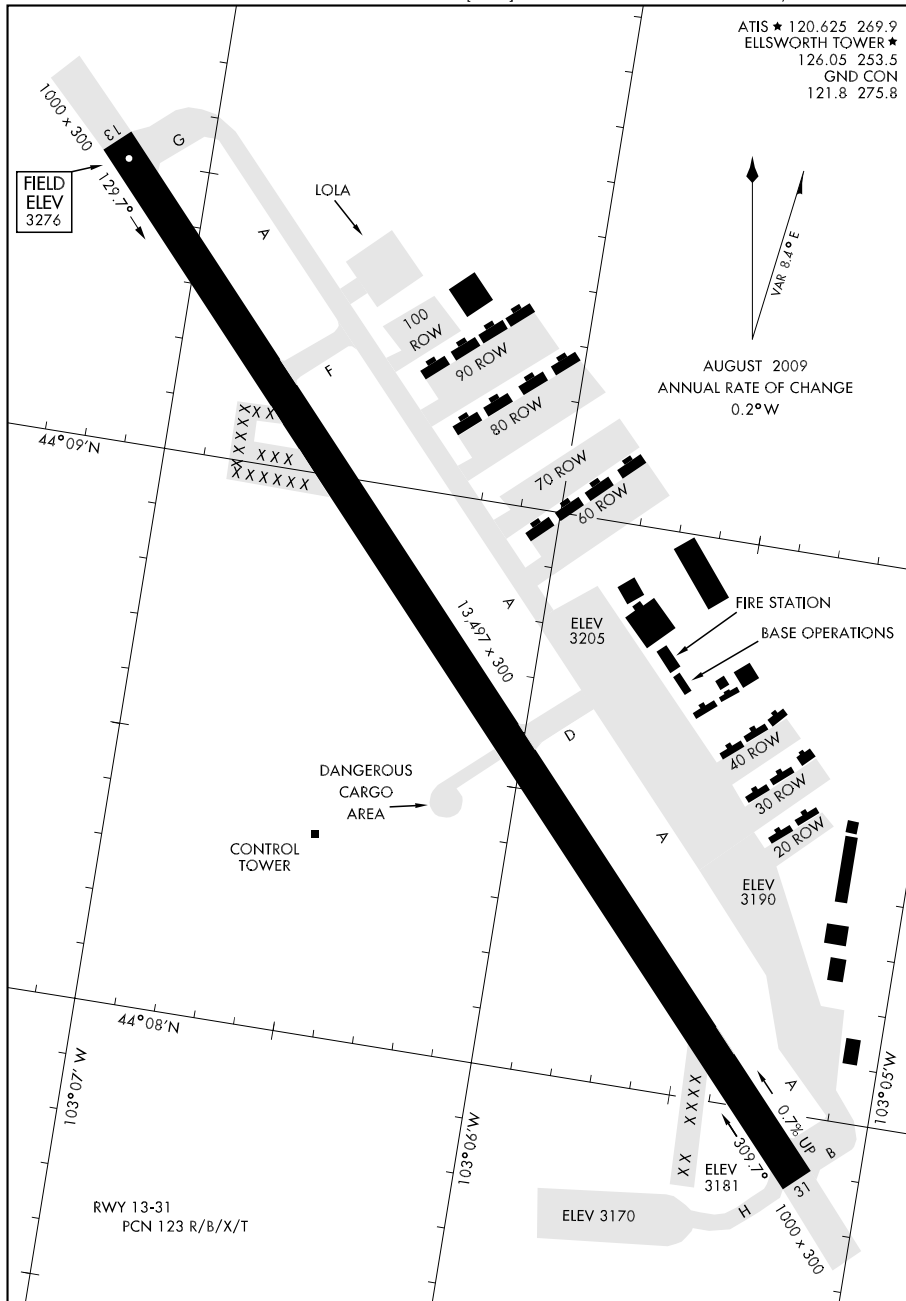
09239

AIRPORT DIAGRAM

AFD-343 [USAF]

ELLSWORTH AFB (KRCA)

RAPID CITY, SOUTH DAKOTA

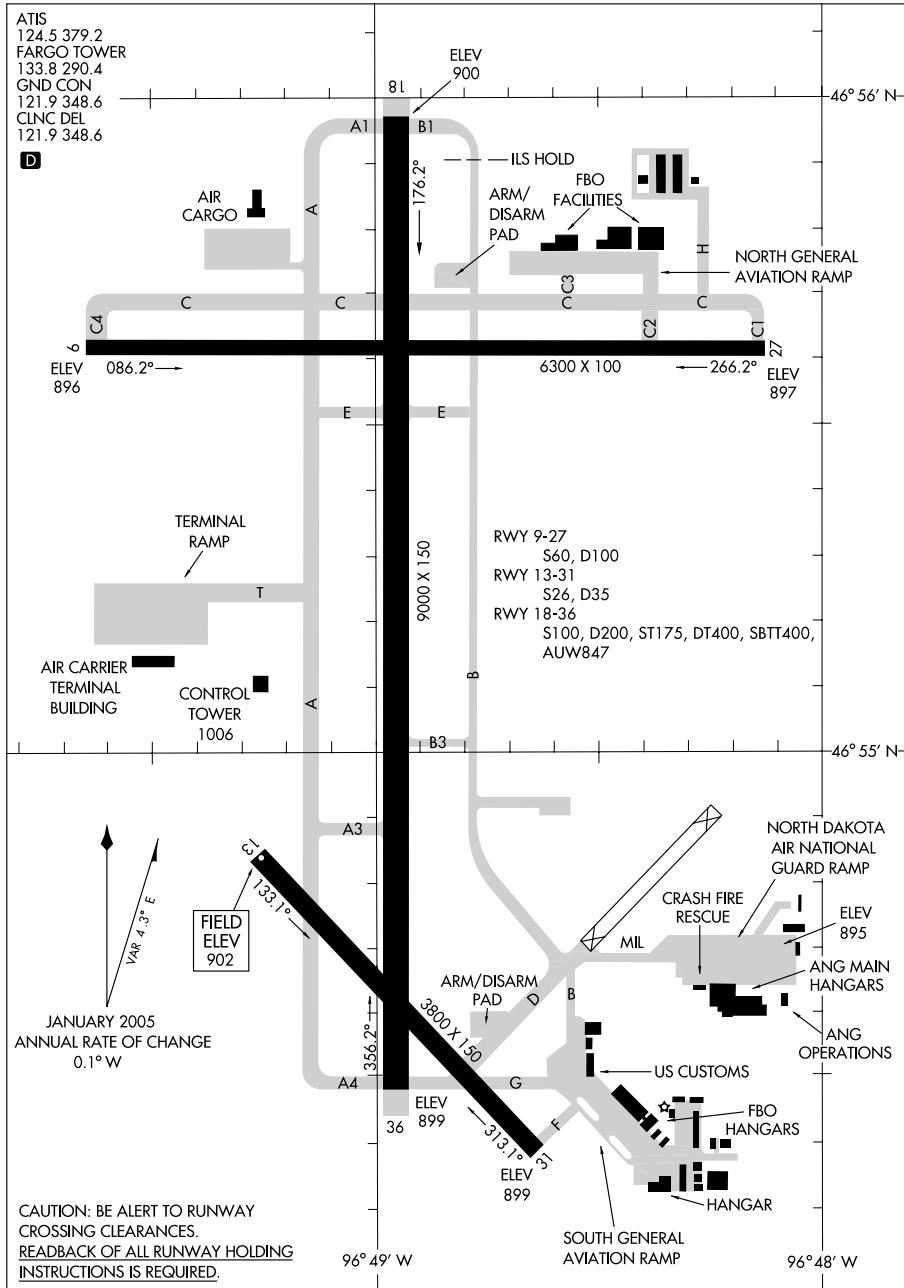


AIRPORT DIAGRAM

RAPID CITY, SOUTH DAKOTA
 ELLSWORTH AFB (KRCA)

09295

AIRPORT DIAGRAM

FARGO/HECTOR INTL (F.A.R.)
FARGO, NORTH DAKOTA

AIRPORT DIAGRAM

09295

FARGO, NORTH DAKOTA
FARGO/HECTOR INTL (F.A.R.)

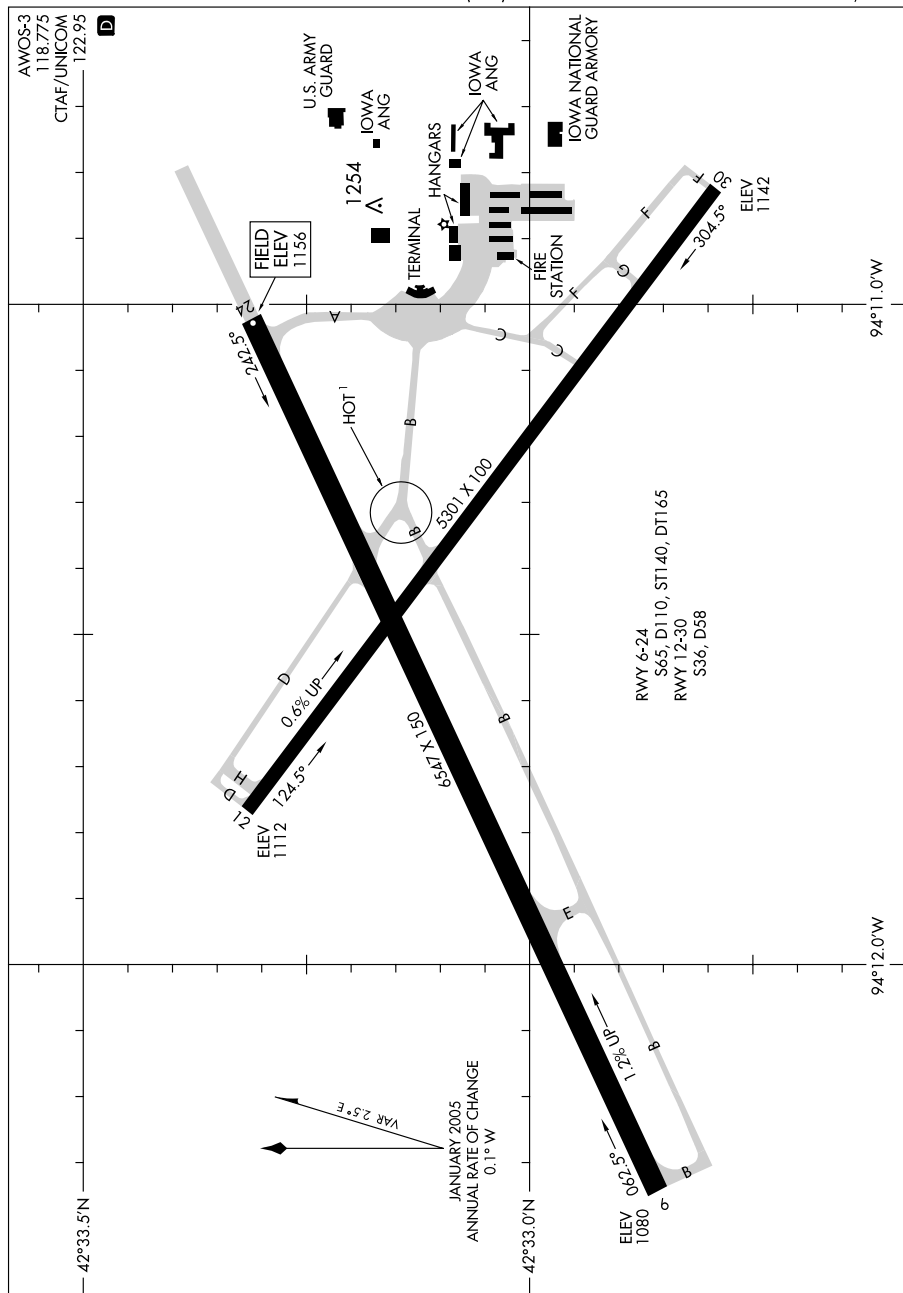
09295

AIRPORT DIAGRAM

AL-976 (FAA)

FORT DODGE RGNL (F'DD)

FORT DODGE, IOWA



AIRPORT DIAGRAM

09295

FORT DODGE, IOWA

FORT DODGE RGNL (F'DD)

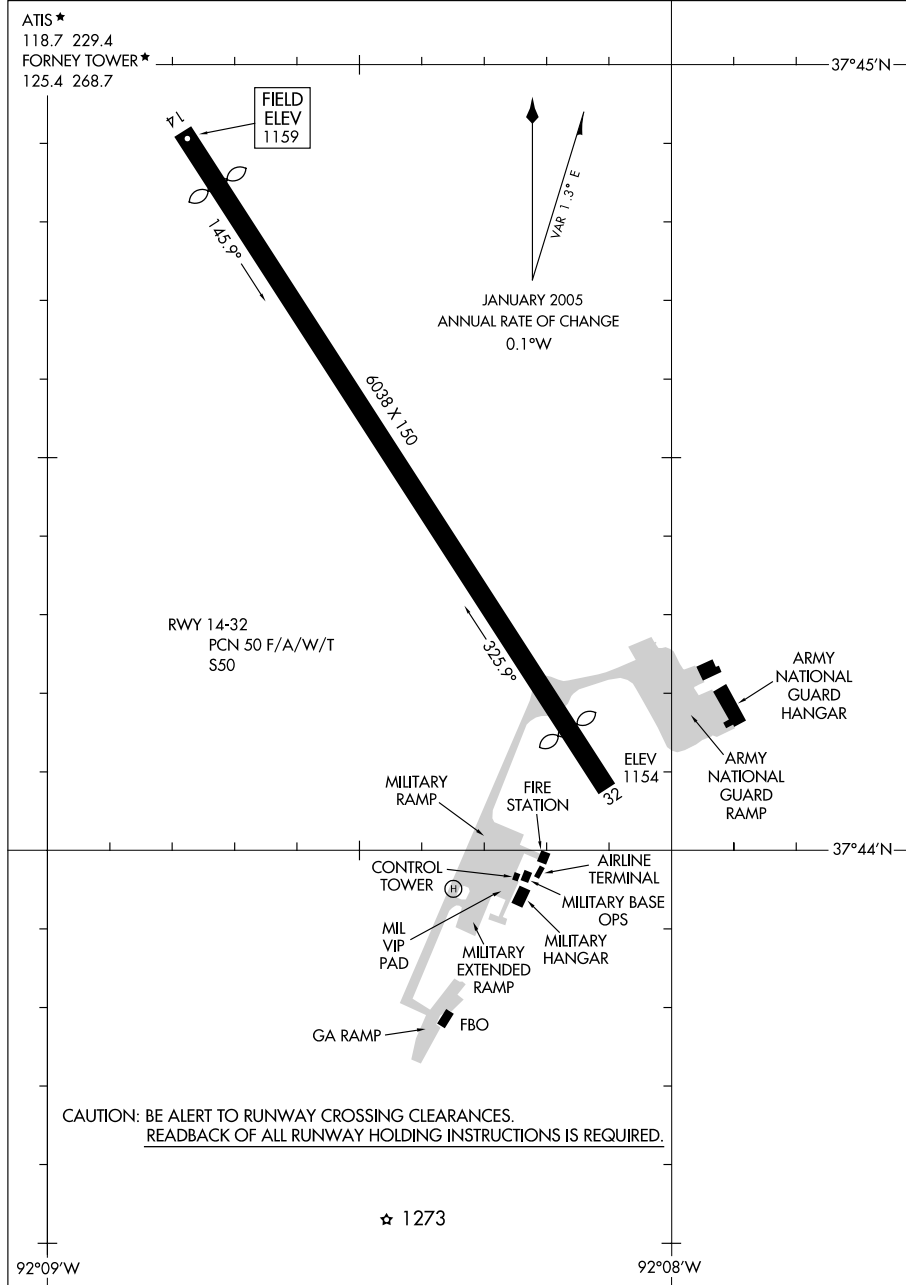
09183

FT. LEONARD WOOD/WAYNESVILLE-ST. ROBERT RGNL FORNEY FIELD (TBN)

AIRPORT DIAGRAM

AL-5093 (FAA)

FT. LEONARD WOOD, MISSOURI



AIRPORT DIAGRAM

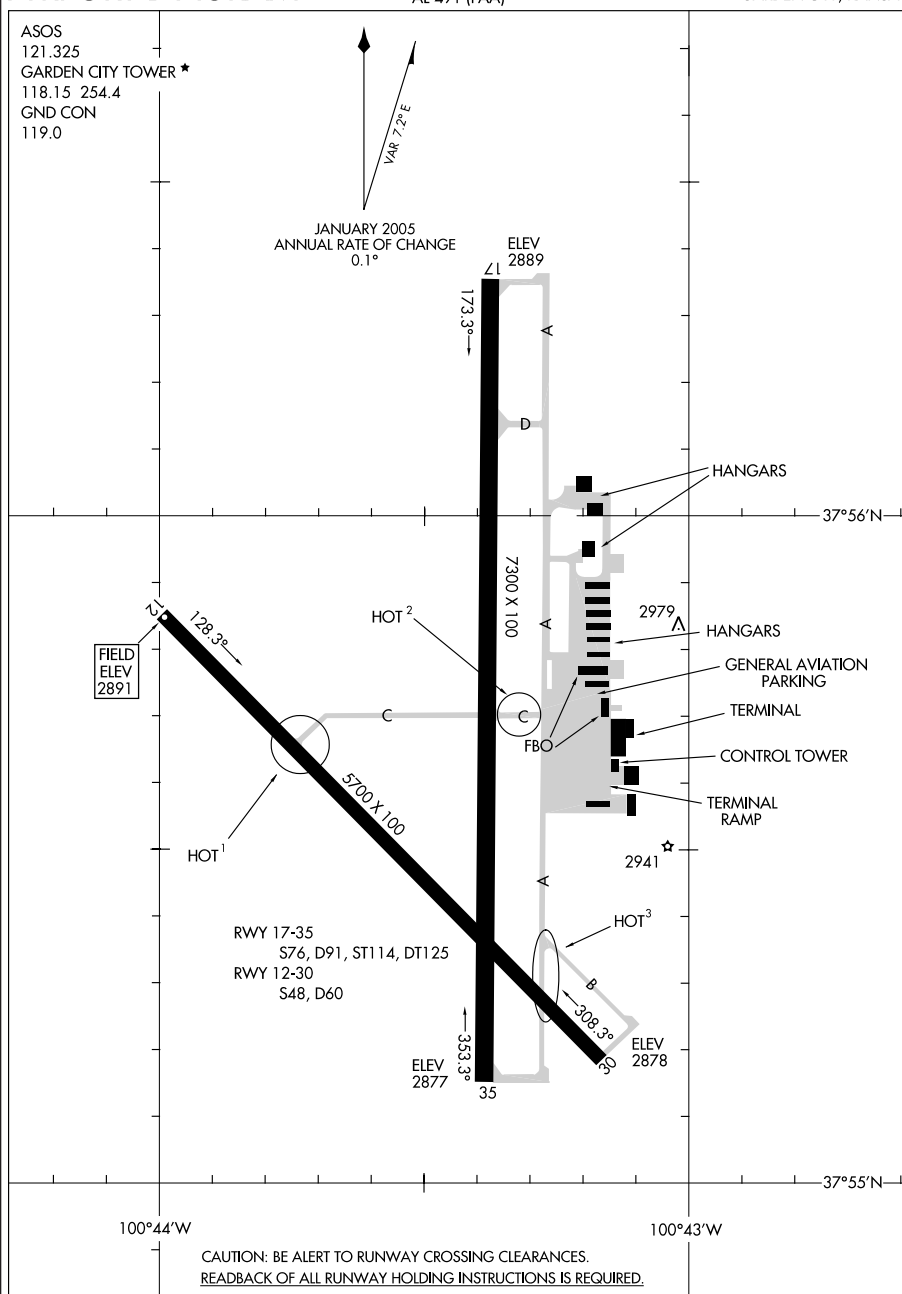
FT. LEONARD WOOD, MISSOURI

09183

FT. LEONARD WOOD/WAYNESVILLE-ST. ROBERT RGNL FORNEY FIELD (TBN)

09295

AIRPORT DIAGRAM

GARDEN CITY RGNL (GCK)
GARDEN CITY, KANSAS

AIRPORT DIAGRAM

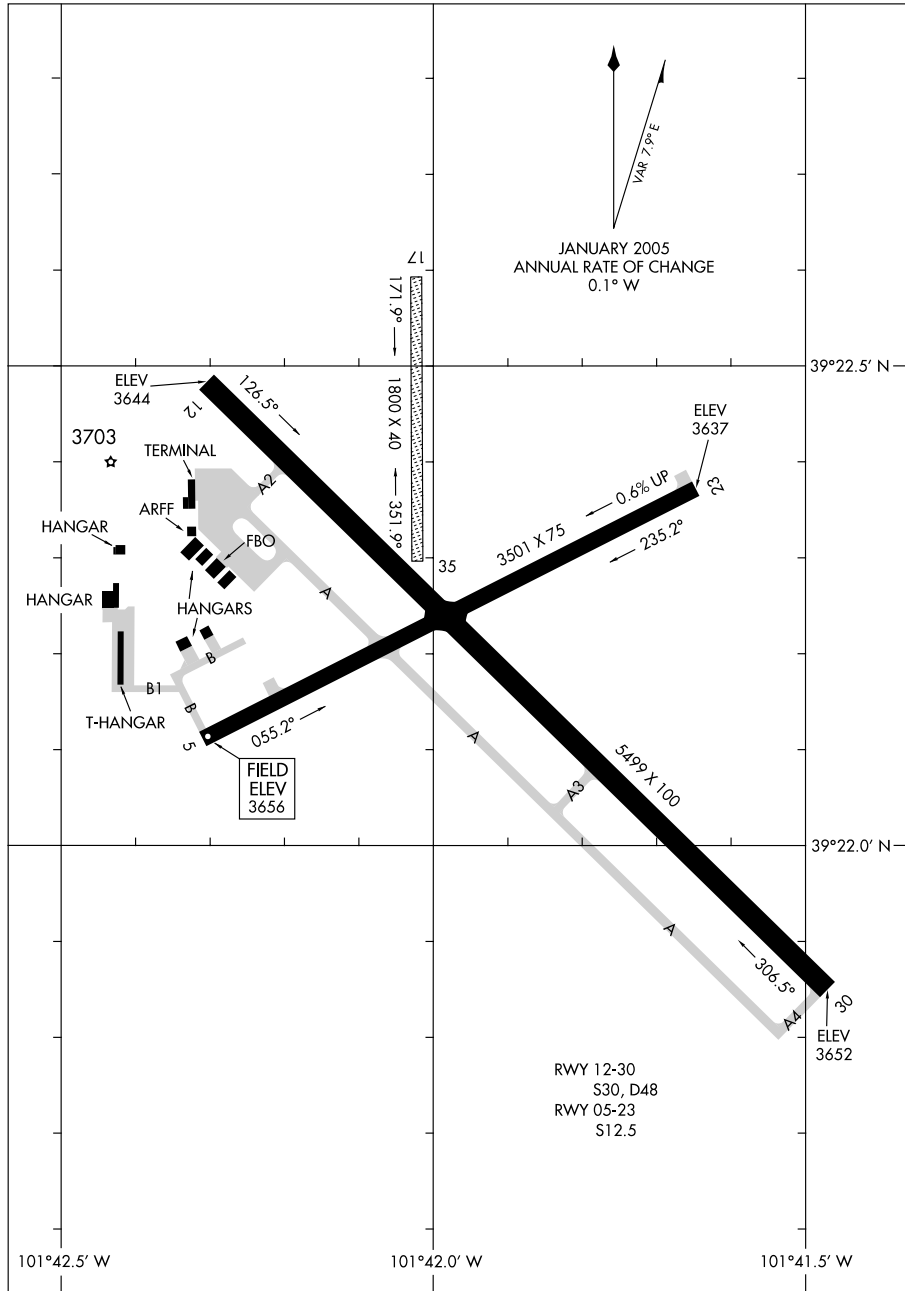
09295

GARDEN CITY, KANSAS
GARDEN CITY RGNL (GCK)

06271

AIRPORT DIAGRAM

GOODLAND/RENNER FIELD/GOODLAND MUNI (GLD)
AL-684 (FAA) GOODLAND, KANSAS



AIRPORT DIAGRAM

06271

39°22' N - 101°42' W

GOODLAND, KANSAS
GOODLAND/RENNER FIELD/GOODLAND MUNI (GLD)

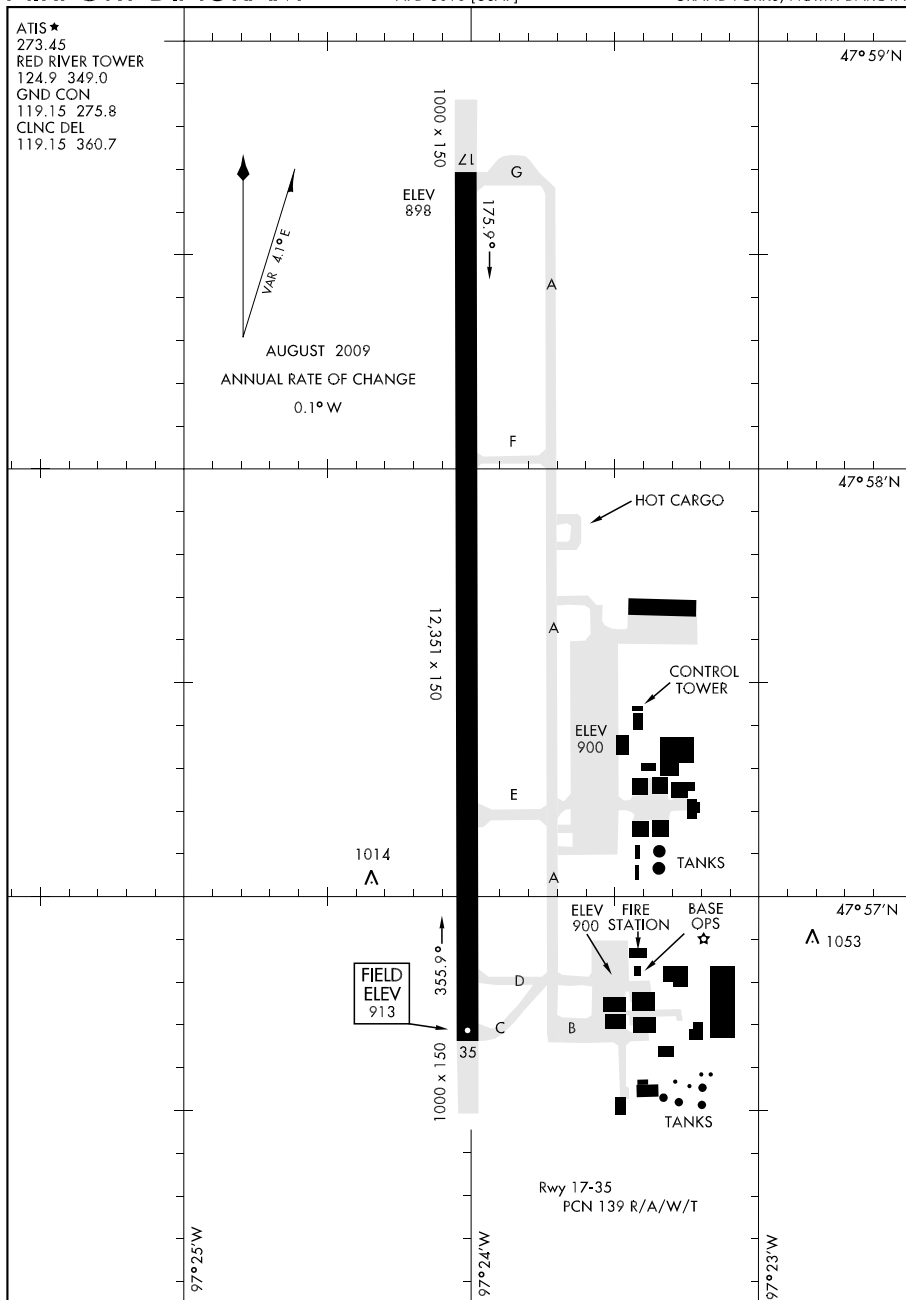
09239

AIRPORT DIAGRAM

AFD-5010 [USAF]

GRAND FORKS AFB (KRDR)

GRAND FORKS, NORTH DAKOTA



AIRPORT DIAGRAM

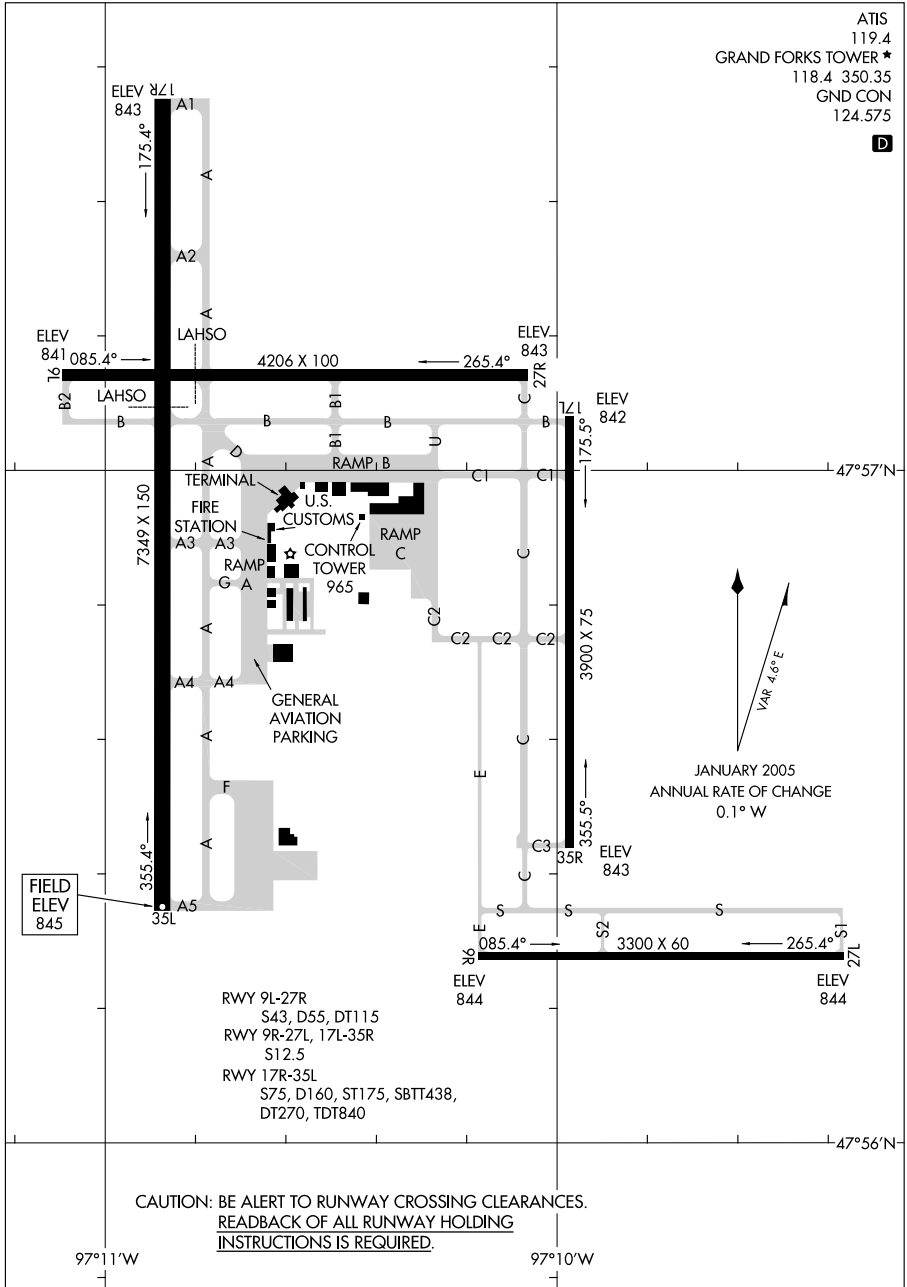
GRAND FORKS, NORTH DAKOTA

GRAND FORKS AFB (KRDR)

09295

AIRPORT DIAGRAM

AL-5187 (FAA)

GRAND FORKS INTL (GFK)
GRAND FORKS, NORTH DAKOTA

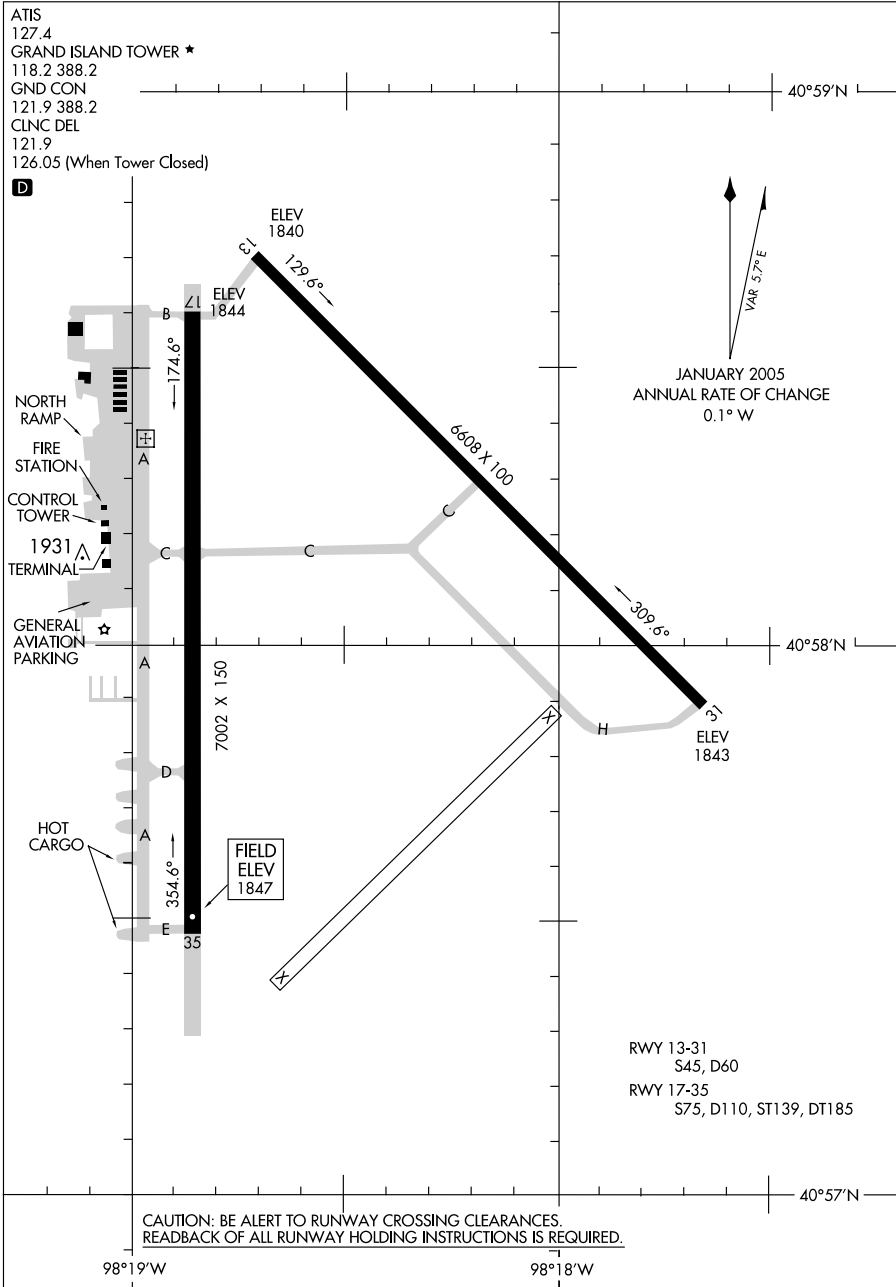
AIRPORT DIAGRAM

09295

GRAND FORKS, NORTH DAKOTA
GRAND FORKS INTL (GFK)

09295

AIRPORT DIAGRAM

 GRAND ISLAND/ CENTRAL NEBRASKA RGNL (GRI)
 AL-173 (FAA) GRAND ISLAND, NEBRASKA


AIRPORT DIAGRAM

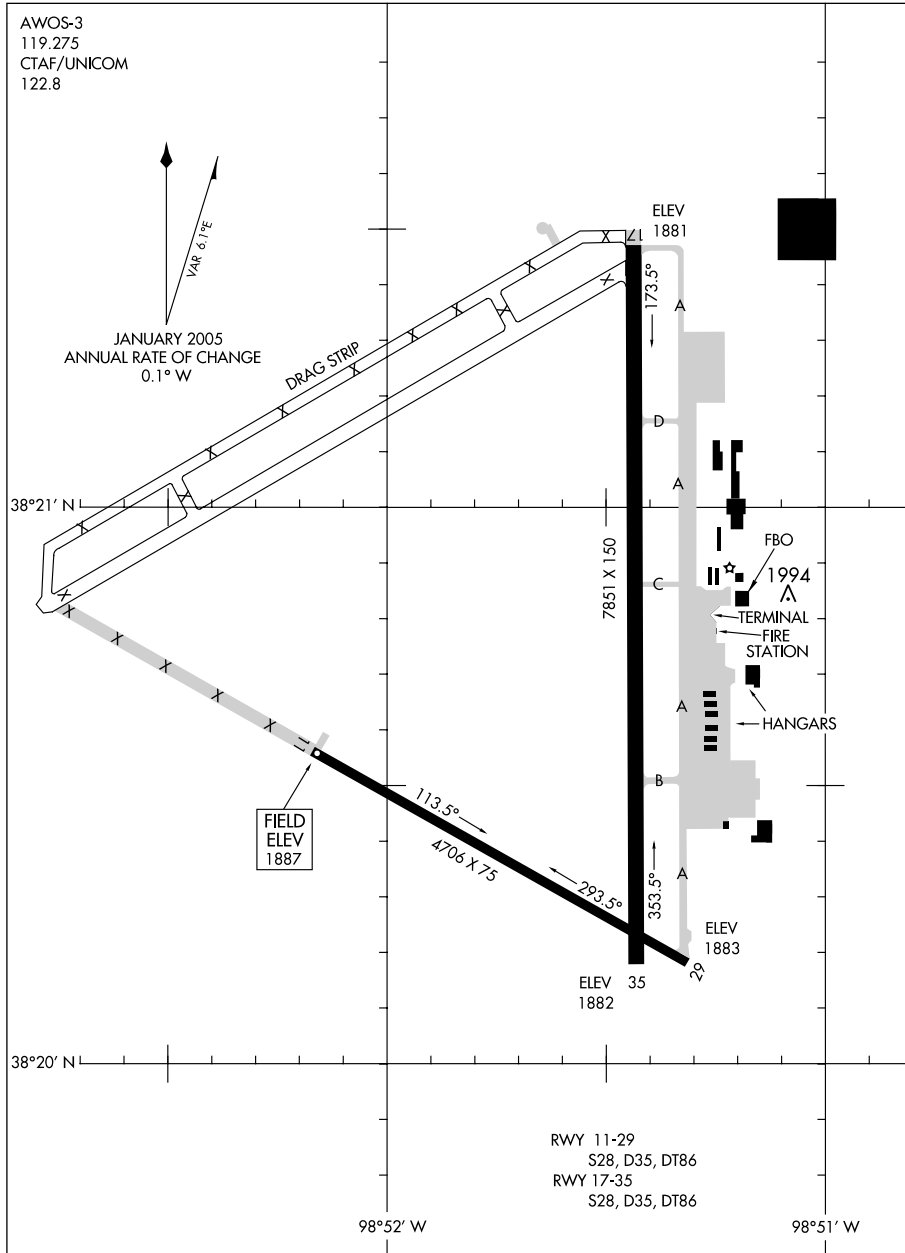
09295

 GRAND ISLAND, NEBRASKA
 GRAND ISLAND/ CENTRAL NEBRASKA RGNL (GRI)

09071

AIRPORT DIAGRAM

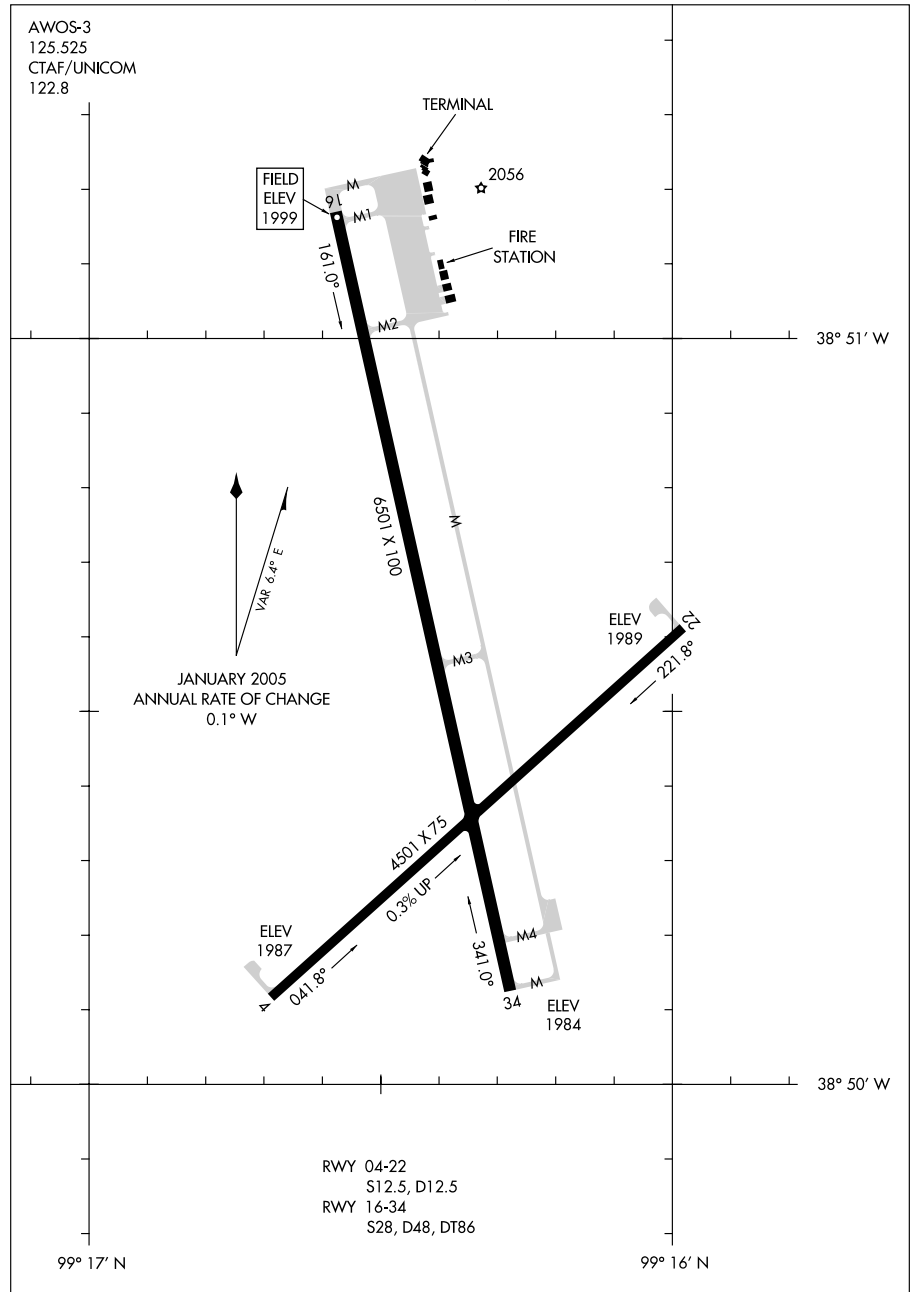
AL-175 (FAA)

GREAT BEND MUNI (GBD)
GREAT BEND, KANSAS

AIRPORT DIAGRAM

09071

GREAT BEND, KANSAS
GREAT BEND MUNI (GBD)



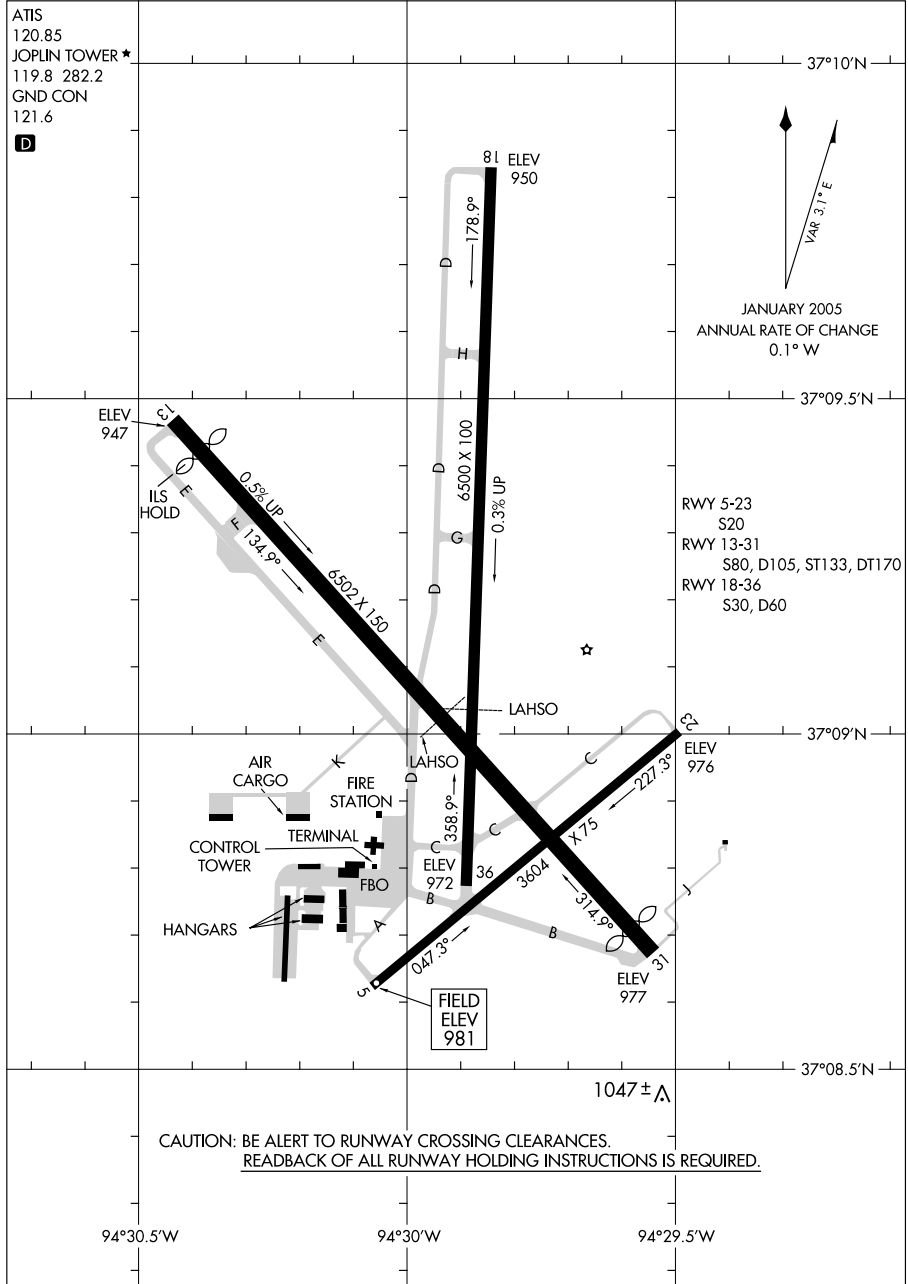
09015

AIRPORT DIAGRAM

AL-540 (FAA)

JOPLIN RGNL (JLN)

JOPLIN, MISSOURI



AIRPORT DIAGRAM

09015

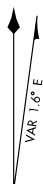
JOPLIN, MISSOURI

JOPLIN RGNL (JLN)

09295

AIRPORT DIAGRAM

AL-5765 (FAA)

KAISER/LEE C. FINE MEMORIAL (AIZ)
KAISER/LAKE OZARK, MISSOURIAWOS-3
135.325
CTAF/UNICOM
122.8


VAR 1° E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

TERMINAL

HANGAR

FIELD
ELEV
869

21

215.4°

38°06.0'N

☆ 913

RWY 3-21
S55, D70, ST89, DT215

38°05.5'N

ELEV
863

3

035.4°

092°33.5'W

092°33.0'W

092°32.5'W

AIRPORT DIAGRAM

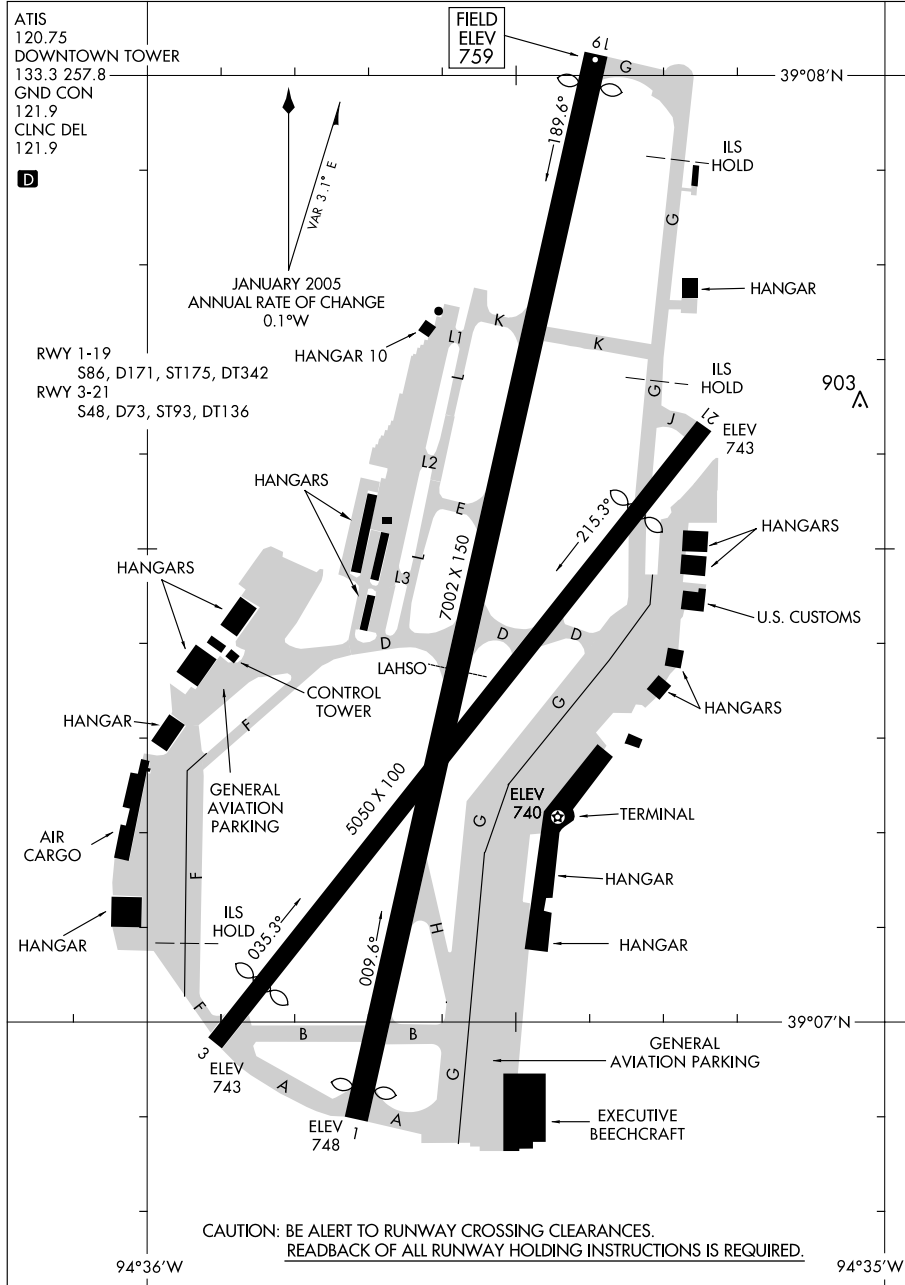
09295

KAISER/LAKE OZARK, MISSOURI
KAISER/LEE C. FINE MEMORIAL (AIZ)

09295

AIRPORT DIAGRAM

KANSAS CITY/CHARLES B. WHEELER DOWNTOWN (MKC)
AL-213 (FAA) KANSAS CITY, MISSOURI



AIRPORT DIAGRAM

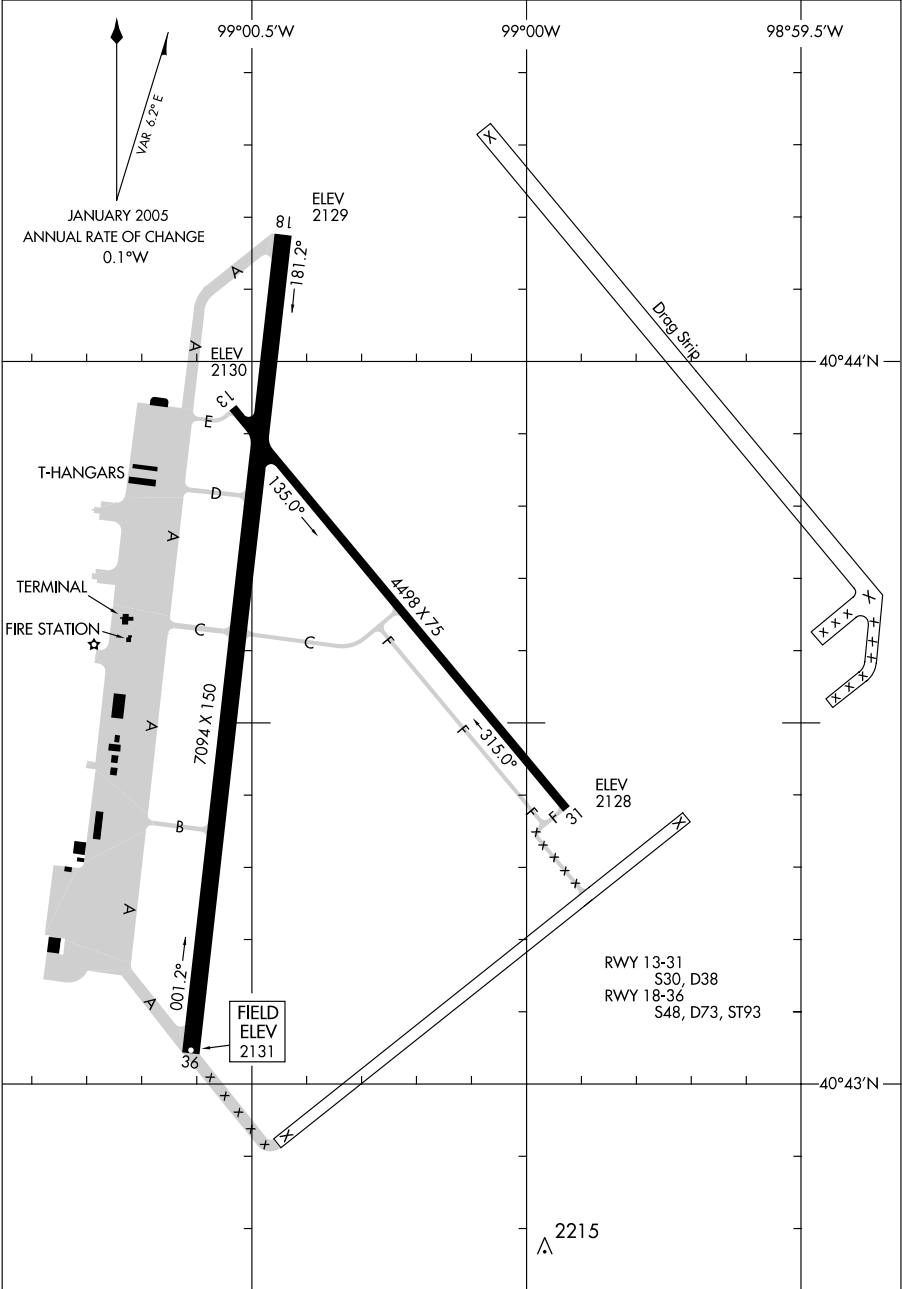
09295

KANSAS CITY, MISSOURI
KANSAS CITY/CHARLES B. WHEELER DOWNTOWN (MKC)

07298
AIRPORT DIAGRAM

AL-541 (FAA)

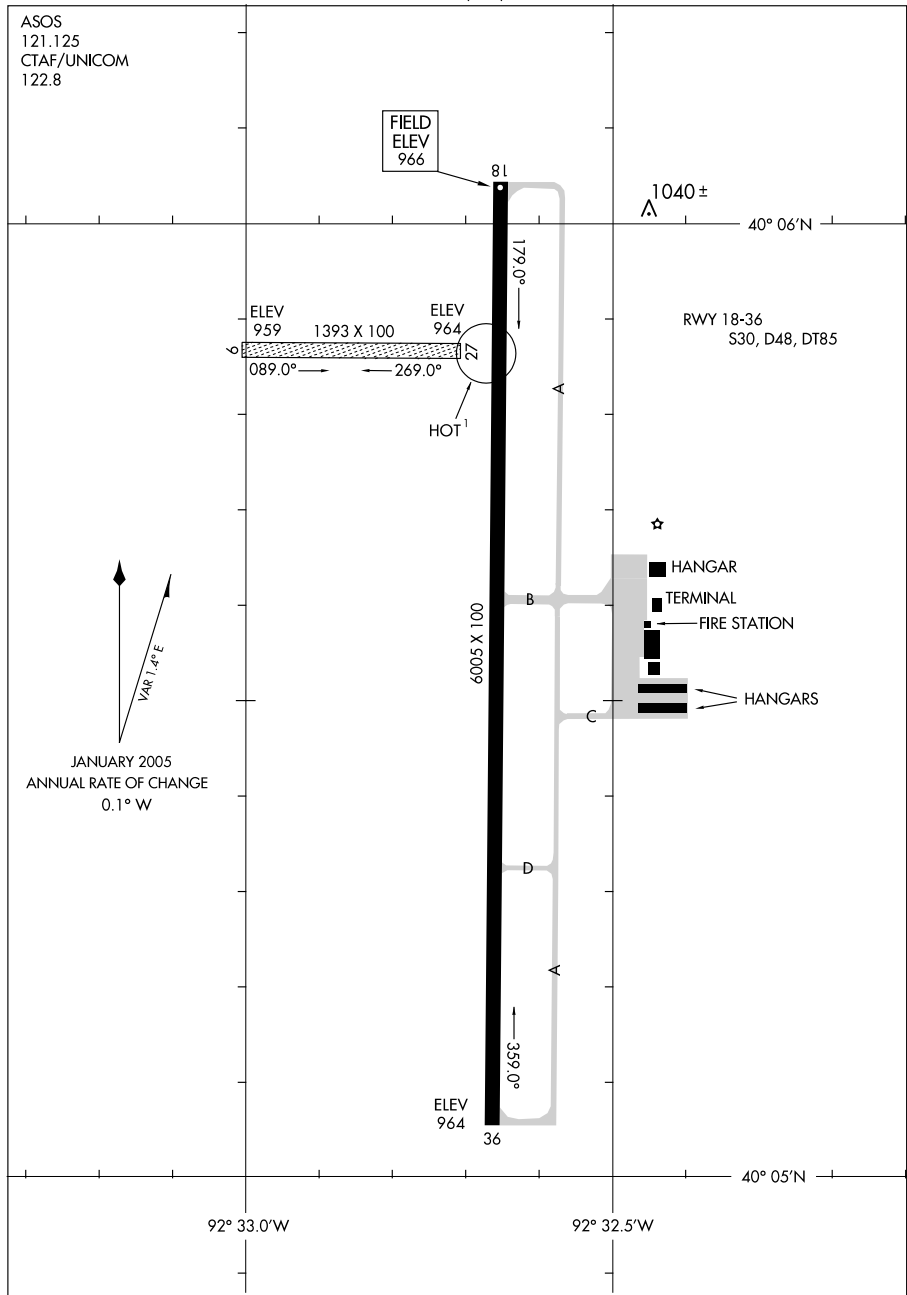
KEARNEY RGNL (E.A.R)
KEARNEY, NEBRASKA



AIRPORT DIAGRAM
07298

40°44'N-99°00'W

KEARNEY, NEBRASKA
KEARNEY RGNL (E.A.R)

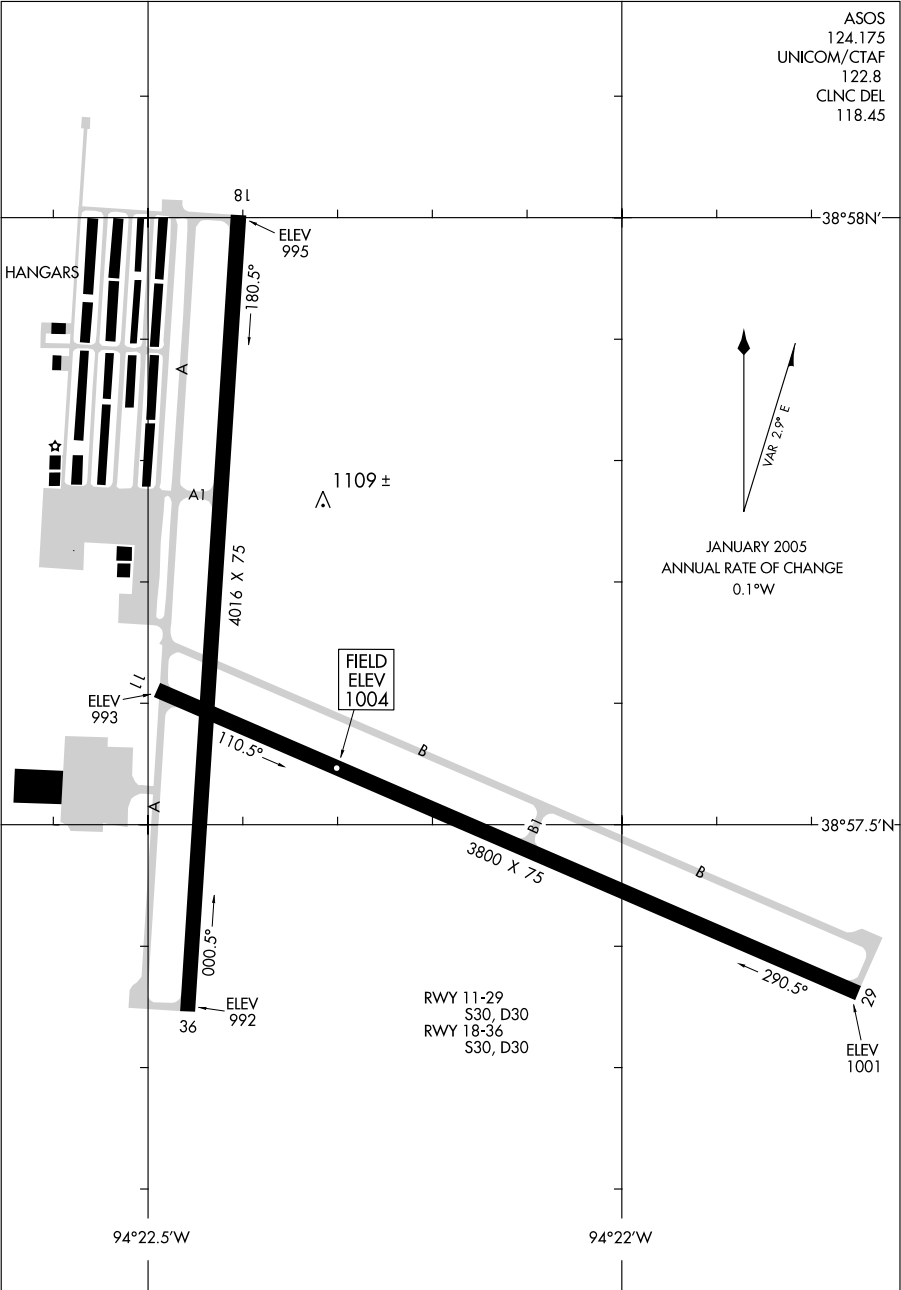


09295

AIRPORT DIAGRAM

AL-6104 (FAA)

LEE'S SUMMIT MUNI (LXT)
LEE'S SUMMIT, MISSOURI



AIRPORT DIAGRAM

09295

LEE'S SUMMIT, MISSOURI
LEE'S SUMMIT MUNI (LXT)

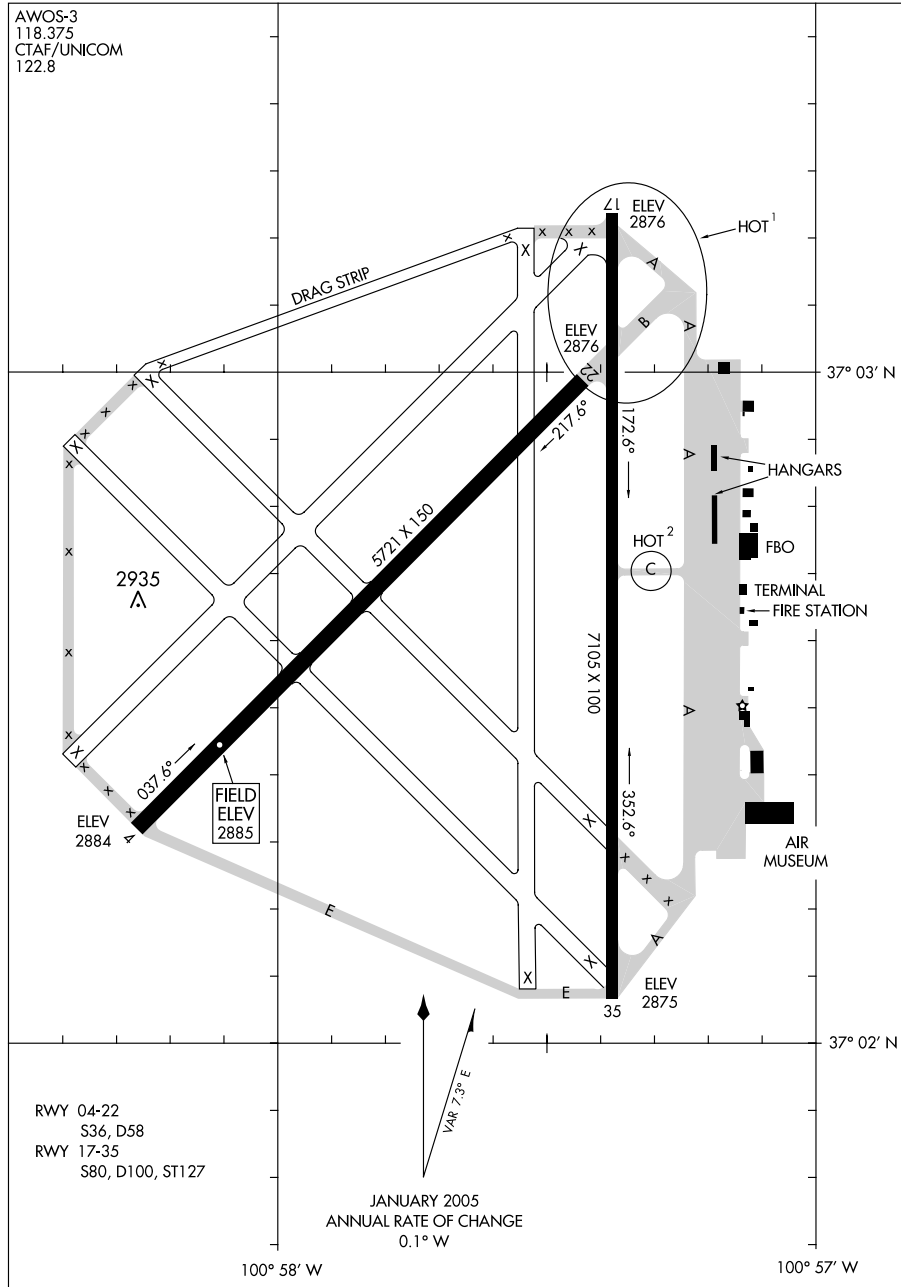
09239

AIRPORT DIAGRAM

AL-498 (FAA)

LIBERAL MID-AMERICA RGNL (LBL)

LIBERAL, KANSAS



AIRPORT DIAGRAM

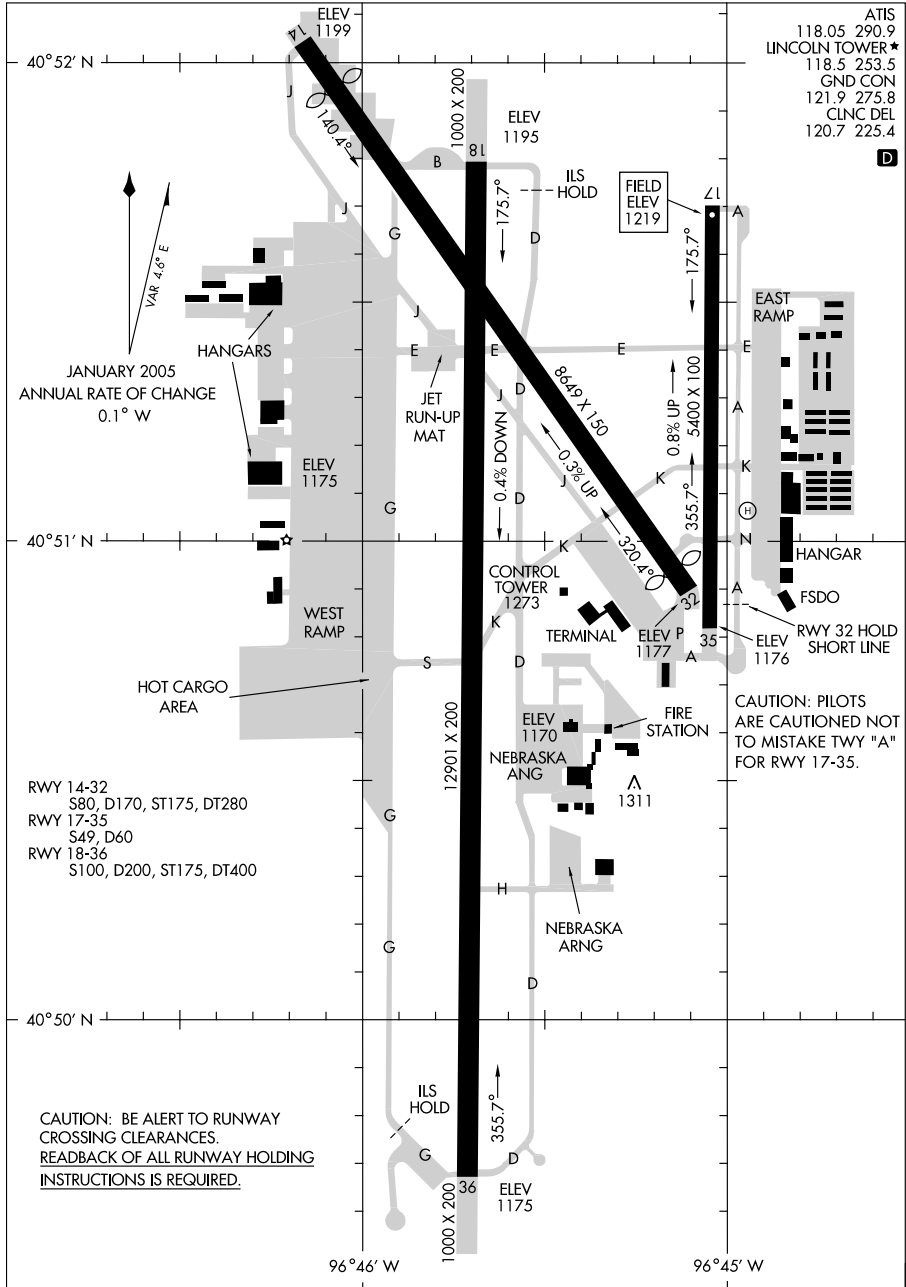
09239

LIBERAL, KANSAS
LIBERAL MID-AMERICA RGNL (LBL)

09071

AIRPORT DIAGRAM

AL-232 (FAA)

LINCOLN (LNK)
LINCOLN, NEBRASKA

AIRPORT DIAGRAM

09071

LINCOLN, NEBRASKA
LINCOLN (LNK)

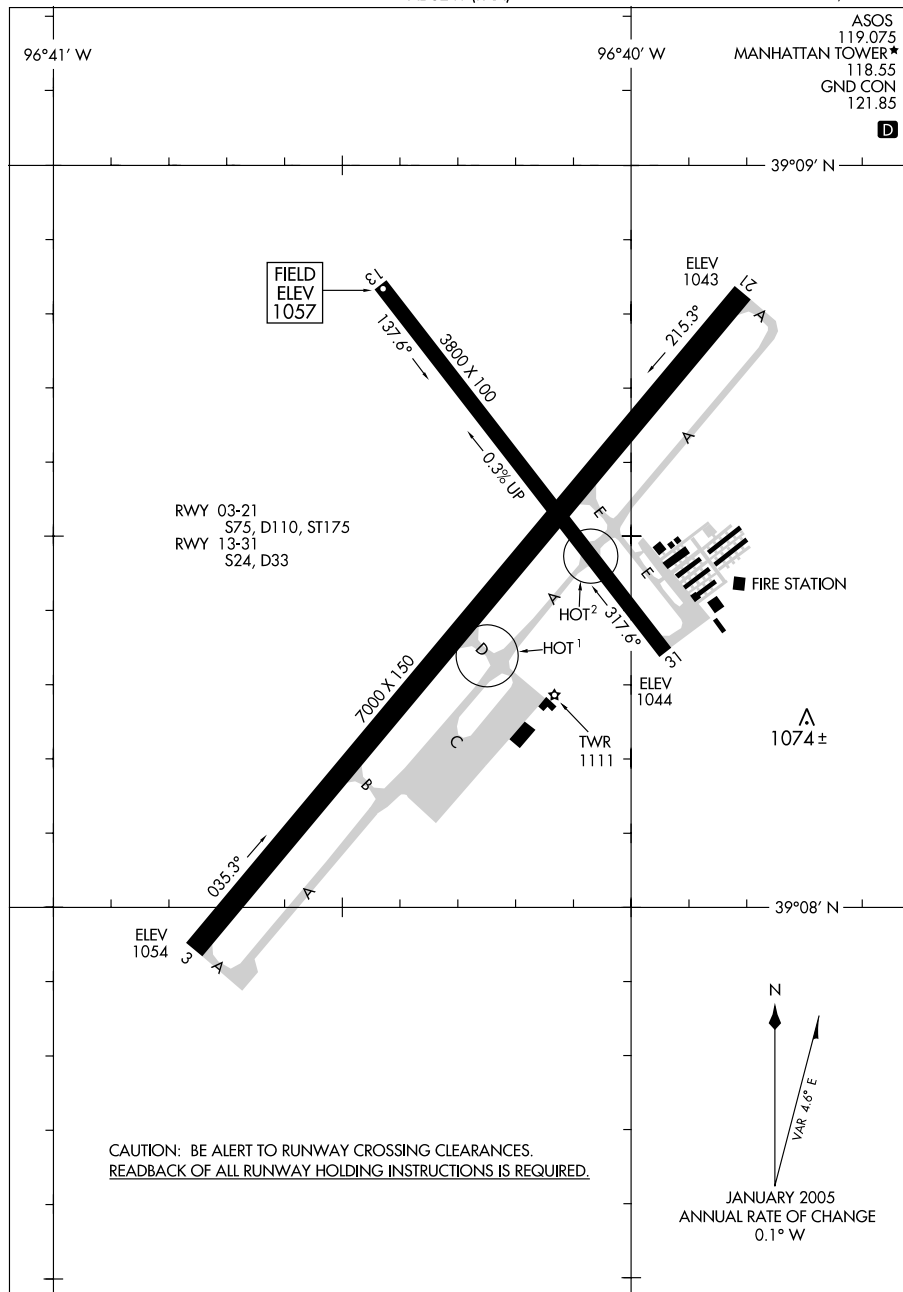
09239

AIRPORT DIAGRAM

AL-5241 (FAA)

MANHATTAN RGNL (MHK)

MANHATTAN, KANSAS



AIRPORT DIAGRAM

09239

MANHATTAN, KANSAS
MANHATTAN RGNL (MHK)

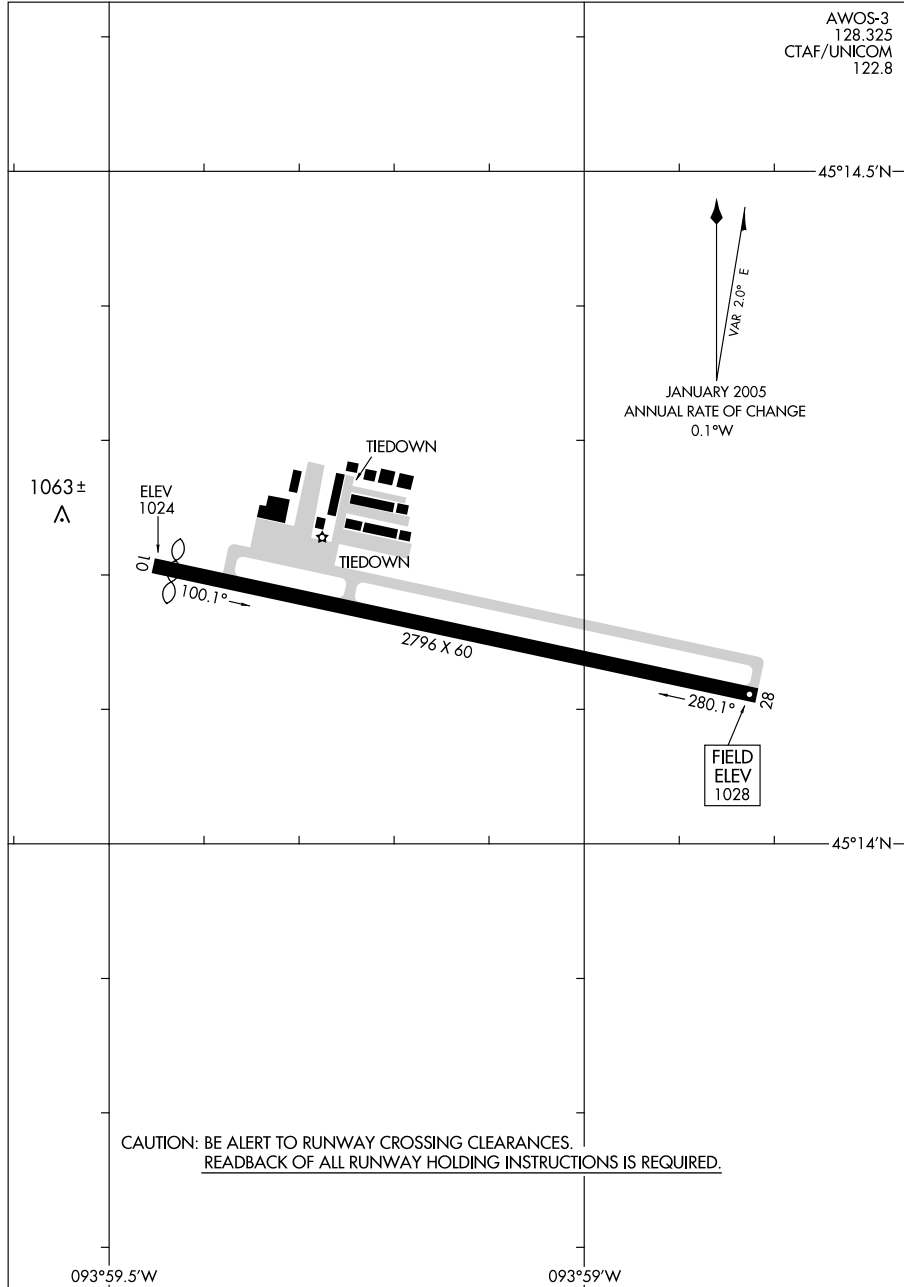
09071

AIRPORT DIAGRAM

AL-6585 (FAA)

MAPLE LAKE MUNI (MGG)
MAPLE LAKE, MINNESOTA

AWOS-3
128.325
CTAF/UNICOM
122.8



AIRPORT DIAGRAM

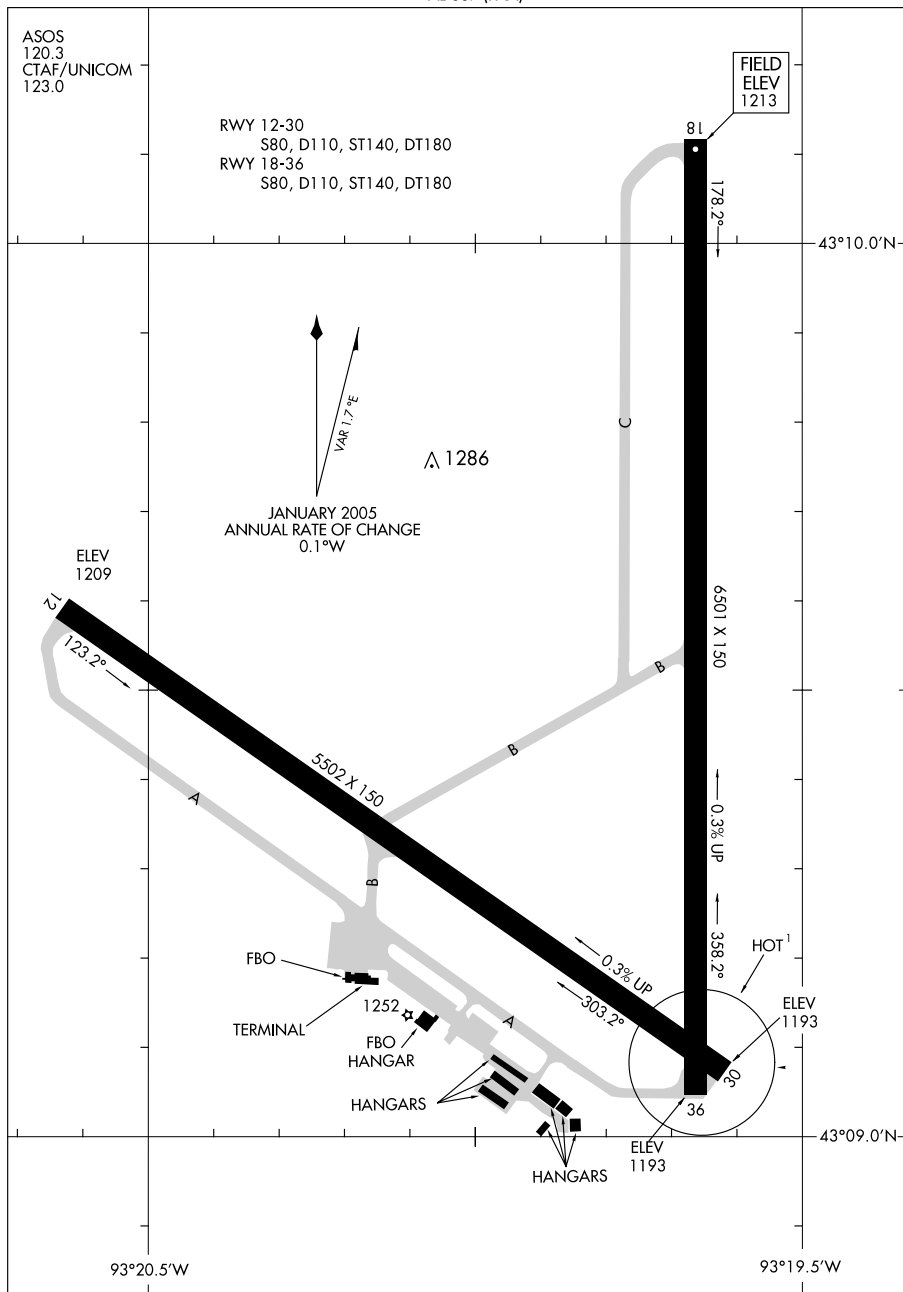
09071

MAPLE LAKE, MINNESOTA
MAPLE LAKE MUNI (MGG)

09295

AIRPORT DIAGRAM

AL-667 (FAA)

MASON CITY MUNI (MCW)
MASON CITY, IOWA

AIRPORT DIAGRAM

09295

MASON CITY, IOWA
MASON CITY MUNI (MCW)

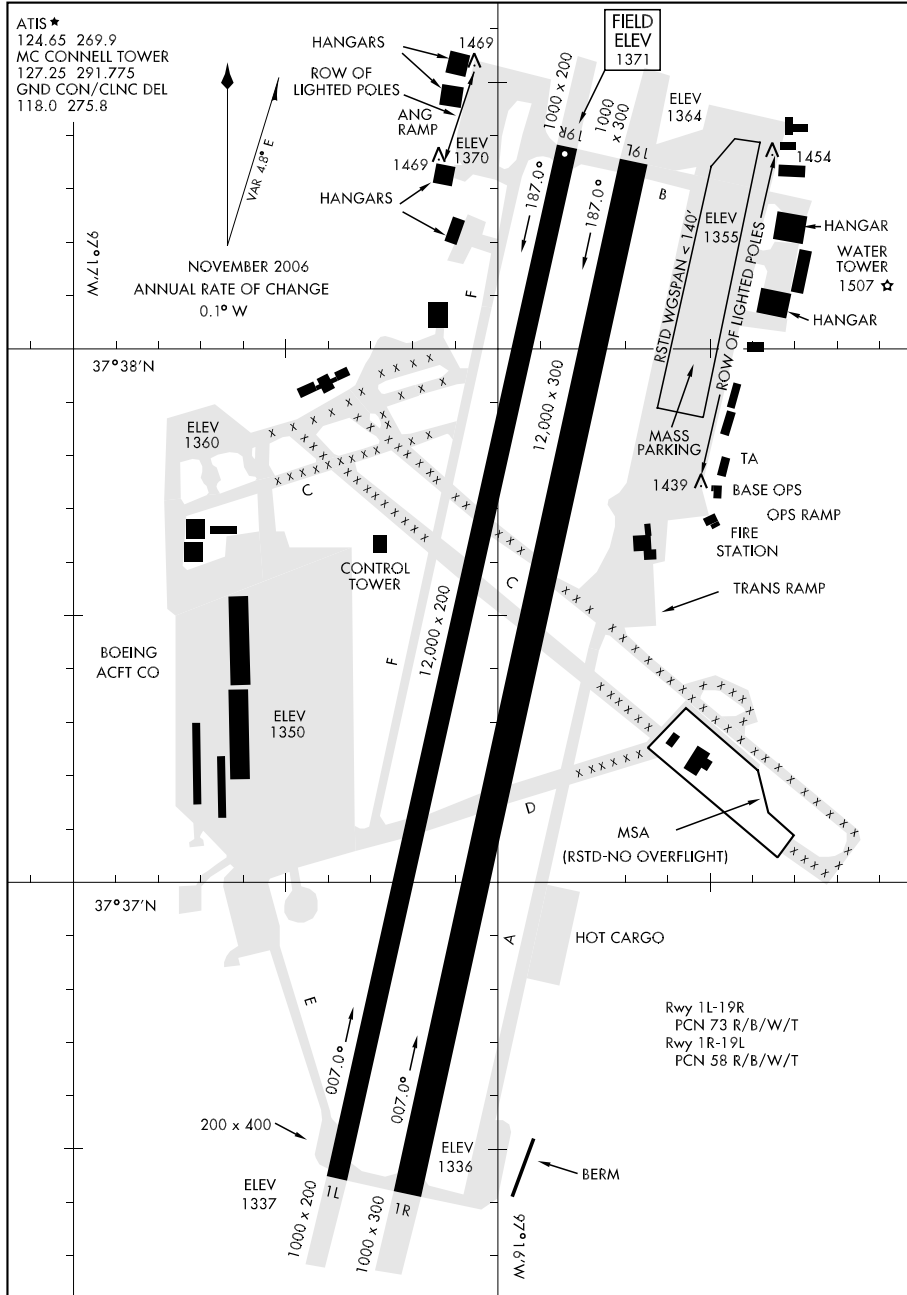
06327

AIRPORT DIAGRAM

MC CONNELL AFB (KIAB)

WICHITA, KANSAS

AFD-453 [USAF]



AIRPORT DIAGRAM

WICHITA, KANSAS

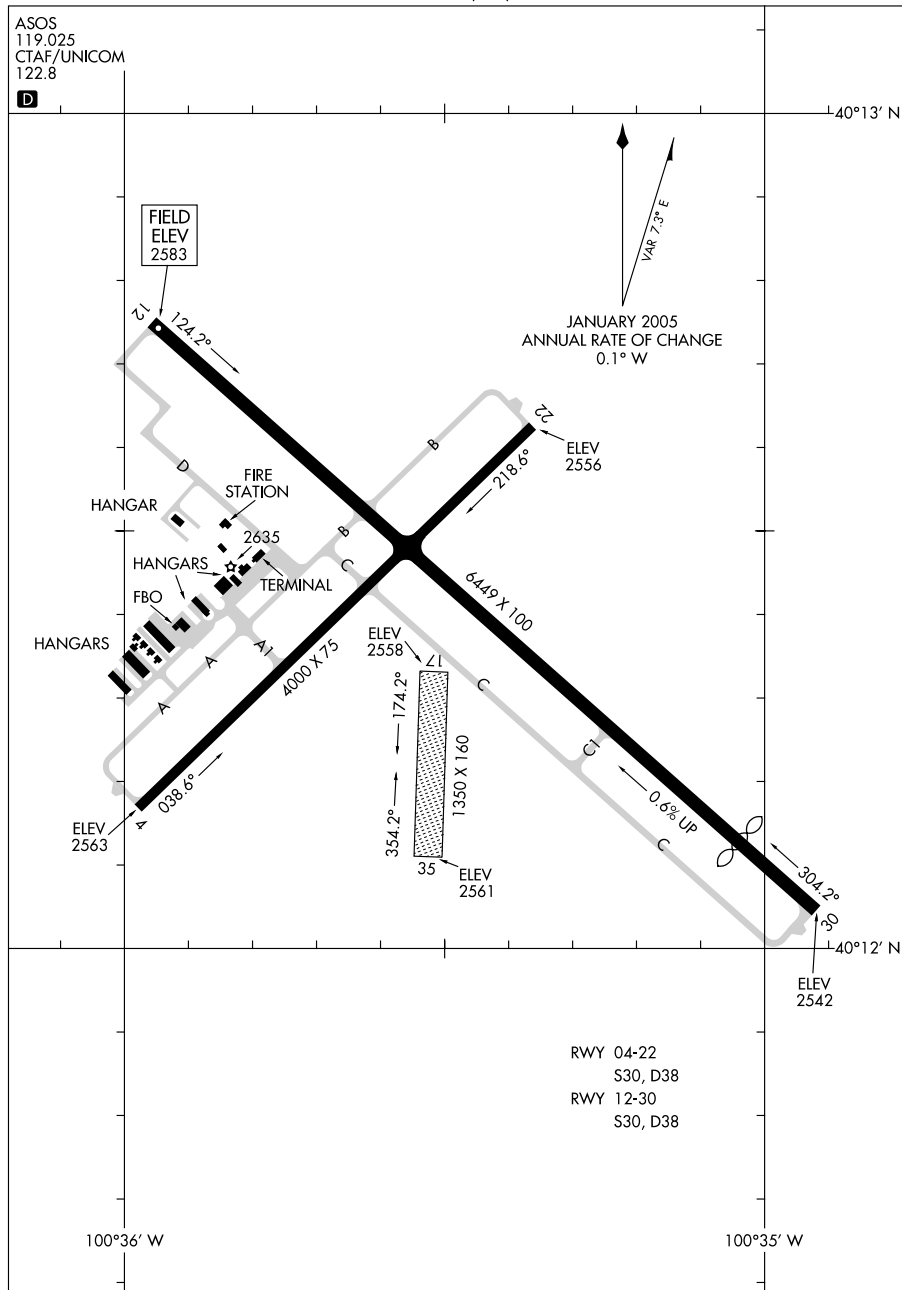
MC CONNELL AFB (KIAB)

NC, 22 OCT 2009 to 17 DEC 2009

09183

AIRPORT DIAGRAM

AL-5301 (FAA)

MC COOK RGNL (MCK)
MC COOK, NEBRASKA

AIRPORT DIAGRAM

09183

MC COOK, NEBRASKA
MC COOK RGNL (MCK)

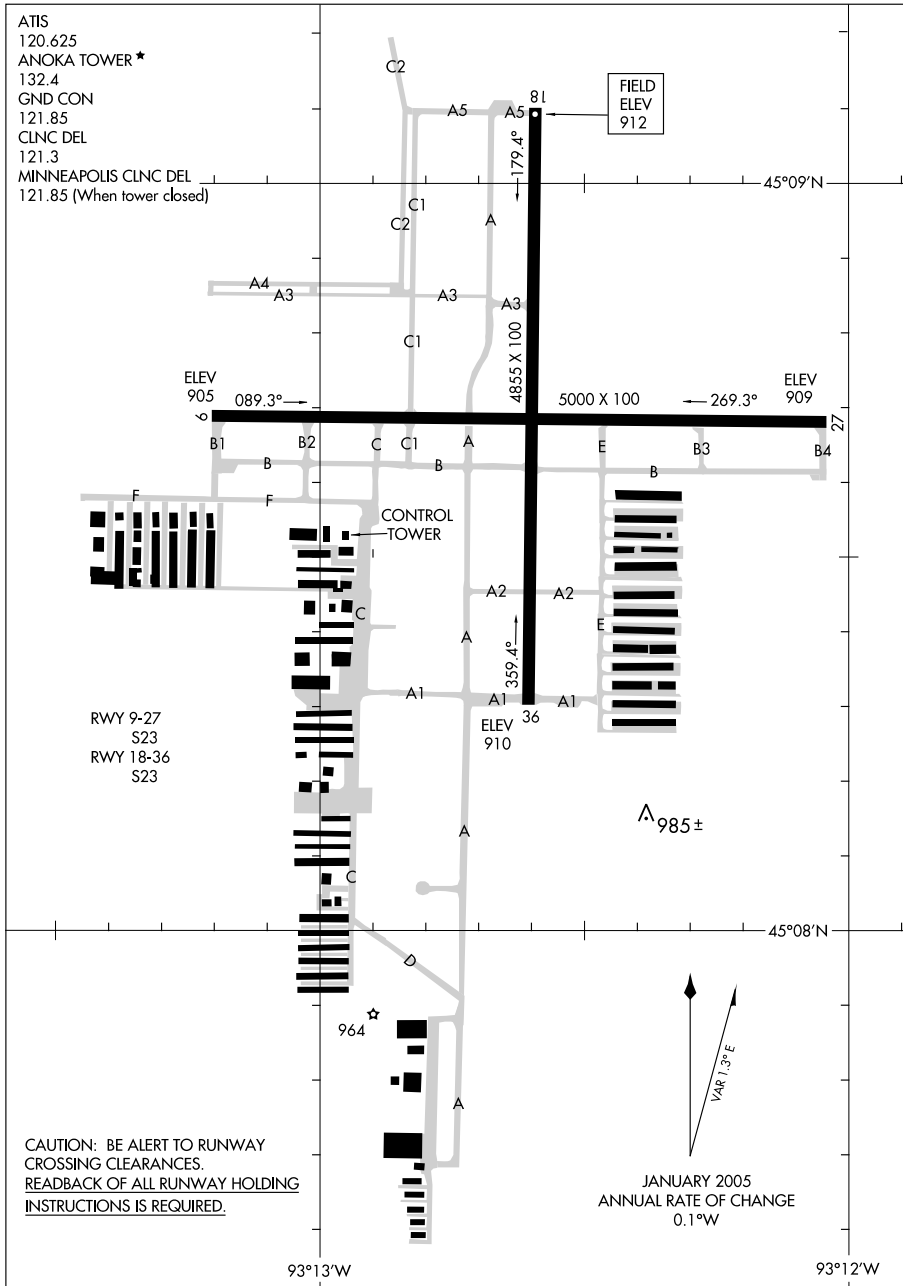
09127

MINNEAPOLIS/ANOKA COUNTY- BLAINE AIRPORT (JANES FIELD) (A.N.E.)

AIRPORT DIAGRAM

AL-5202 (FAA)

MINNEAPOLIS, MINNESOTA



AIRPORT DIAGRAM

MINNEAPOLIS, MINNESOTA

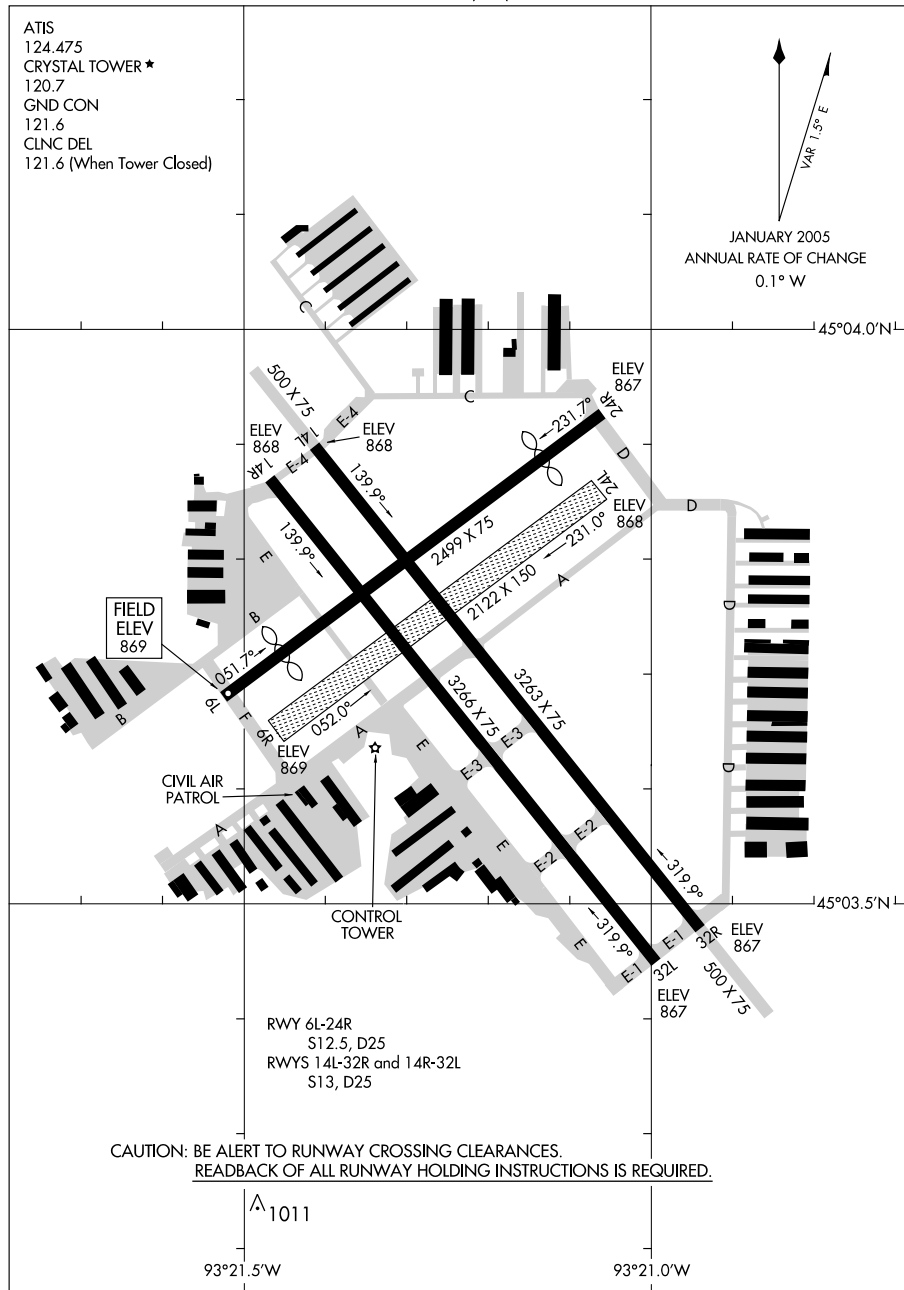
09127

MINNEAPOLIS/ANOKA COUNTY- BLAINE AIRPORT (JANES FIELD) (A.N.E.)

09127

AIRPORT DIAGRAM

AL-5158 (FAA)

MINNEAPOLIS/CRYSTAL (MIC)
MINNEAPOLIS, MINNESOTA

AIRPORT DIAGRAM

09127

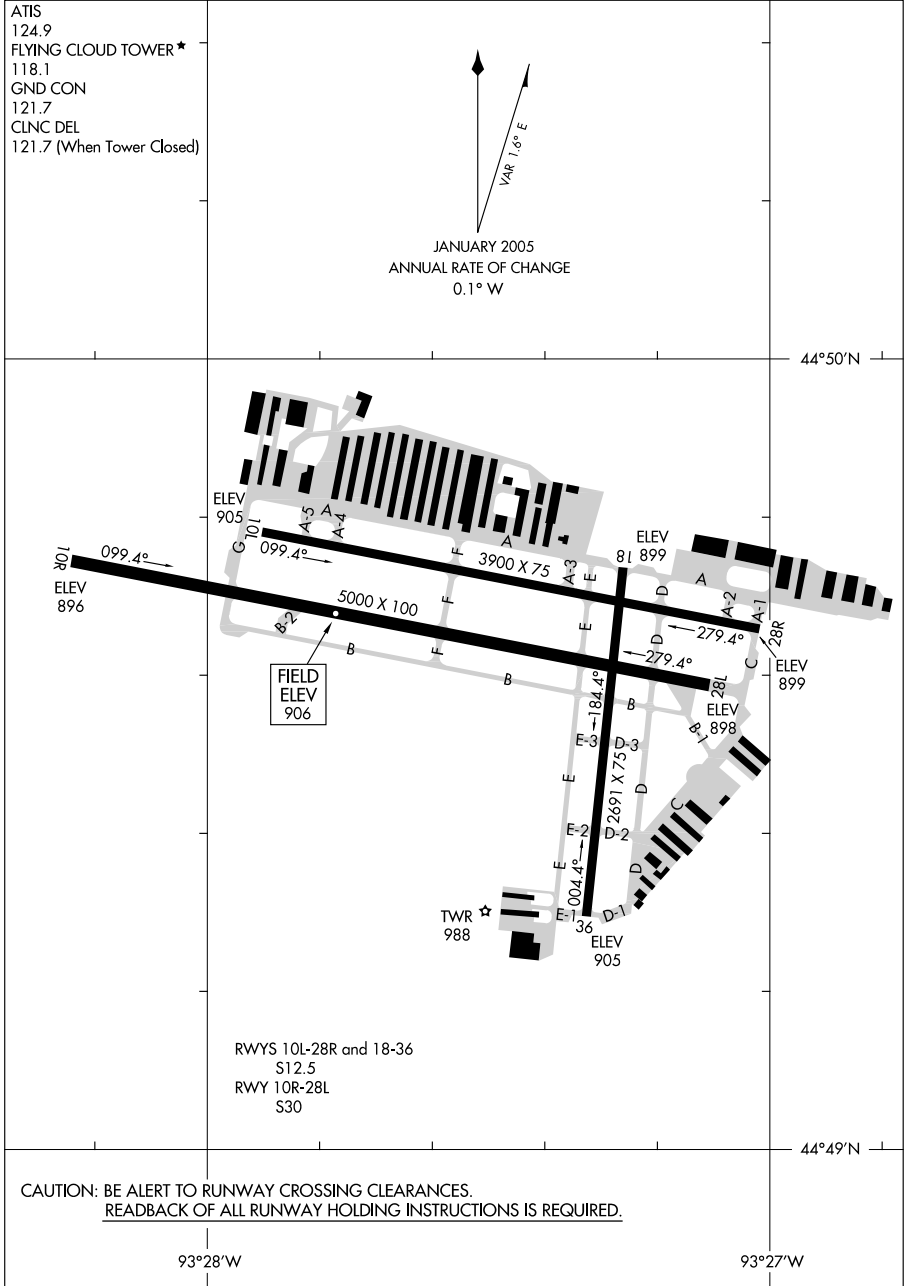
MINNEAPOLIS, MINNESOTA
MINNEAPOLIS/CRYSTAL (MIC)

09295

AIRPORT DIAGRAM

AL-5094 (FAA)

MINNEAPOLIS/ FLYING CLOUD (F'CM)
MINNEAPOLIS, MINNESOTA



09295

AIRPORT DIAGRAM

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)
AL-264 (FAA) MINNEAPOLIS, MINNESOTA

ATIS

ARR 135.35 239.275

DEP 120.8

MINNEAPOLIS TOWER

123.95 273.55 (Rwy 12L-30R)

126.7 273.55 (Rwys 12R-30L, 4-22)

123.675 273.55 (Rwy 17-35)

GND CON

N 121.8 348.6

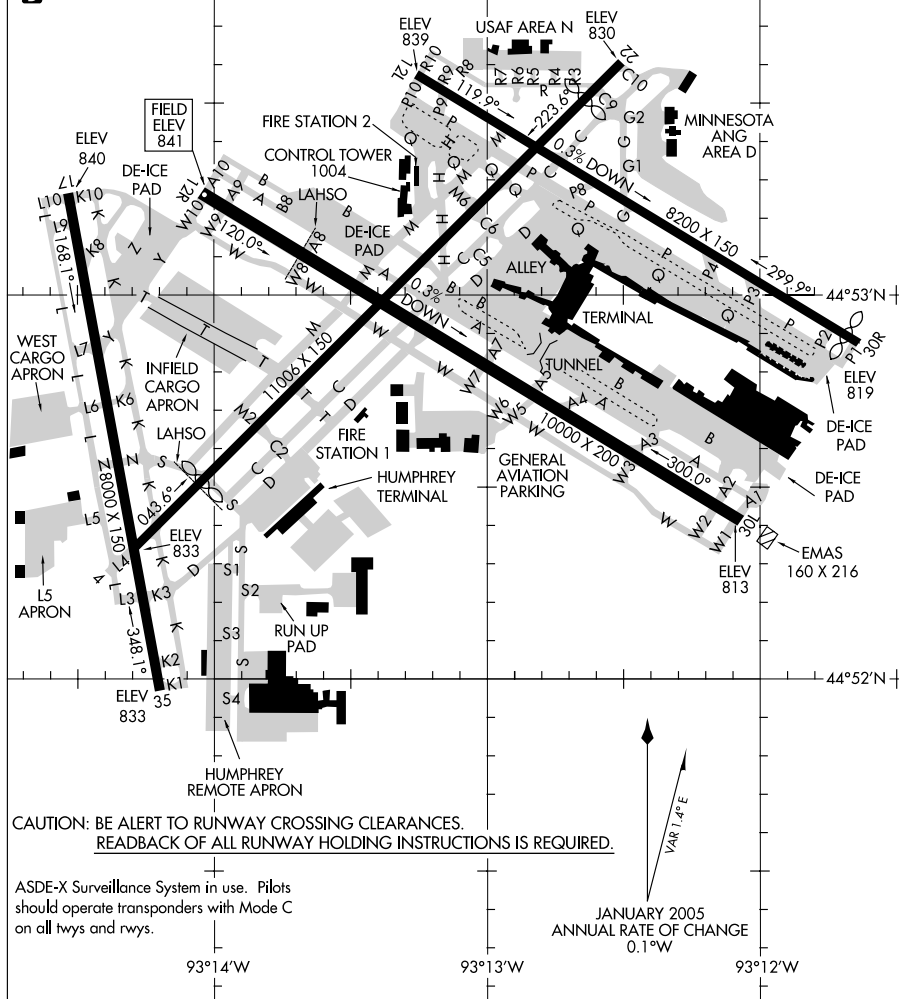
S 121.9 348.6

W 127.925 348.6

CLNC DEL

133.2

D



AIRPORT DIAGRAM

MINNEAPOLIS, MINNESOTA
MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)

09295

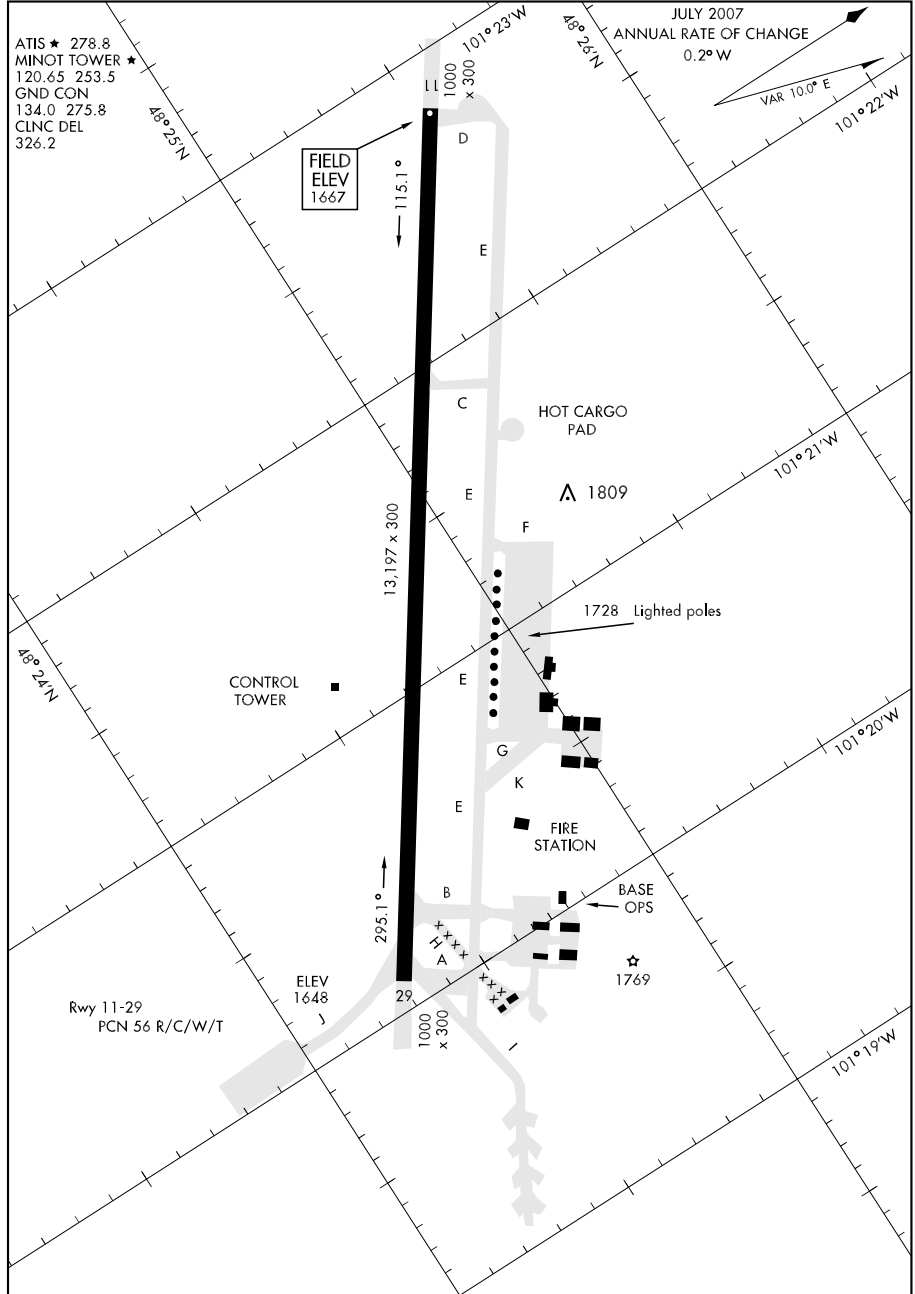
07186

AIRPORT DIAGRAM

AFD-5013 [USAF]

MINOT AFB (KMIB)

MINOT, NORTH DAKOTA



AIRPORT DIAGRAM

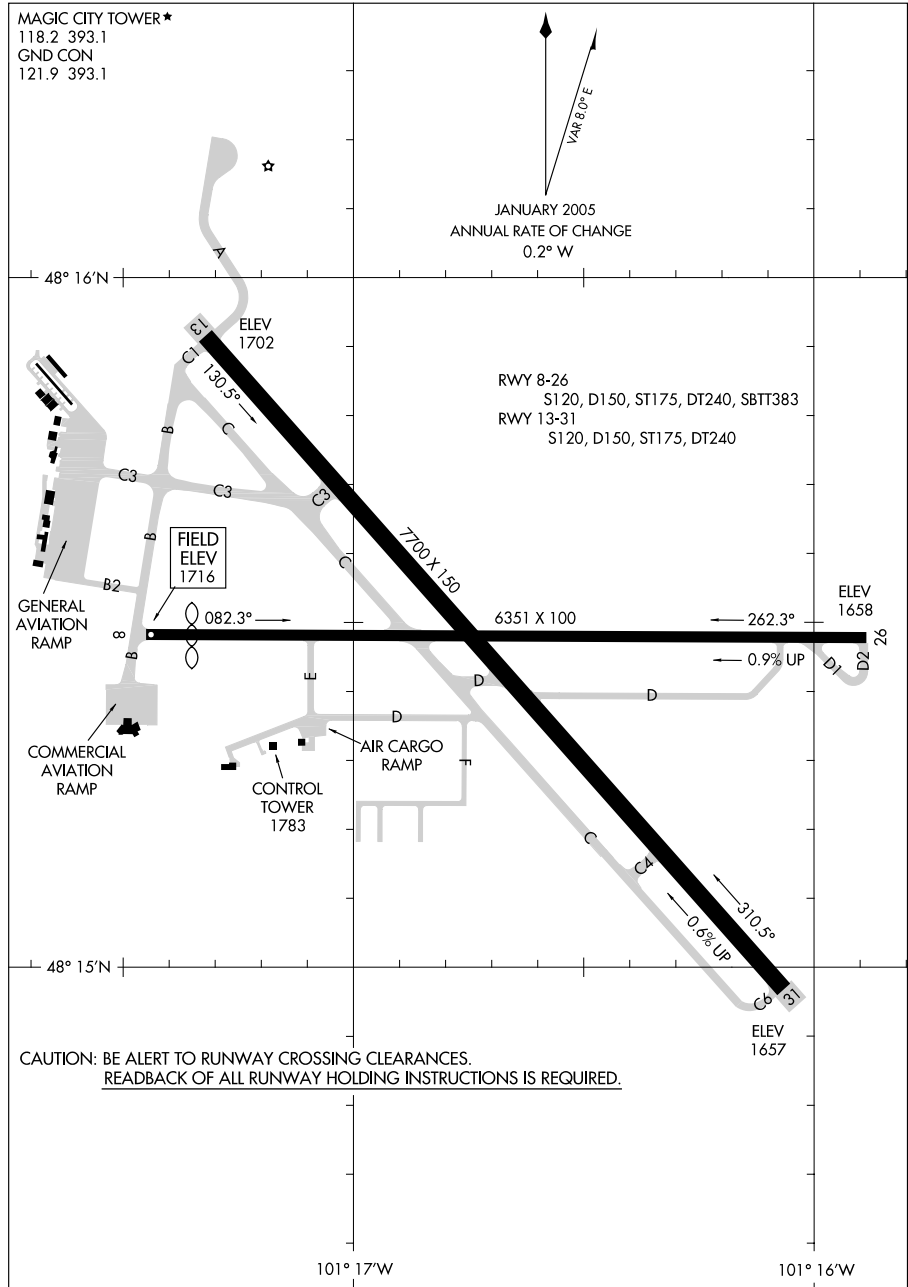
MINOT, NORTH DAKOTA

MINOT AFB (KMIB)

09015

AIRPORT DIAGRAM

AL-635 (FAA)

MINOT INTL (MOT)
MINOT, NORTH DAKOTA

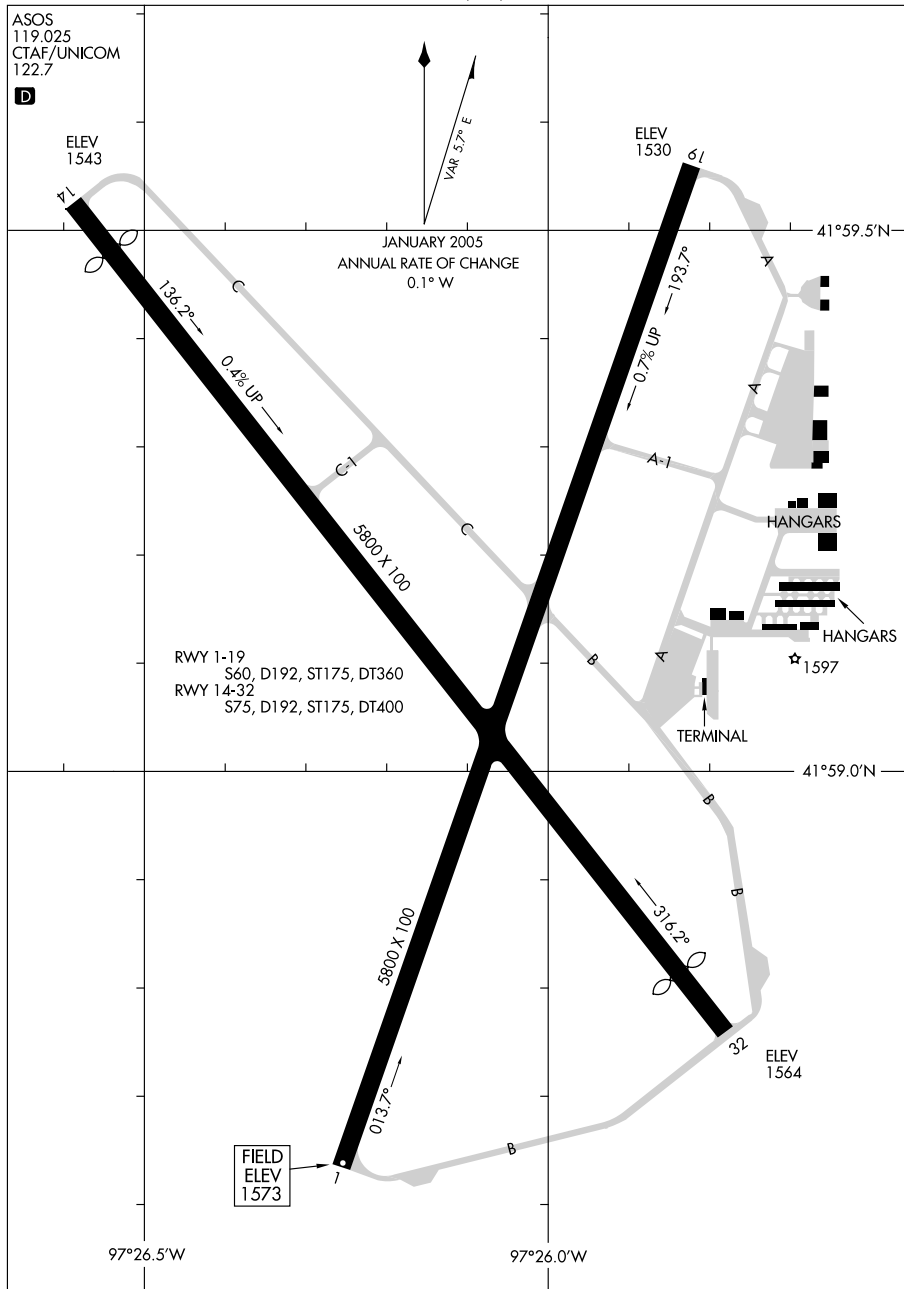
AIRPORT DIAGRAM

09015

MINOT, NORTH DAKOTA
MINOT INTL (MOT)

09295

AIRPORT DIAGRAM

NORFOLK/KARL STEFAN MEMORIAL (OFK)
NORFOLK, NEBRASKA

AIRPORT DIAGRAM

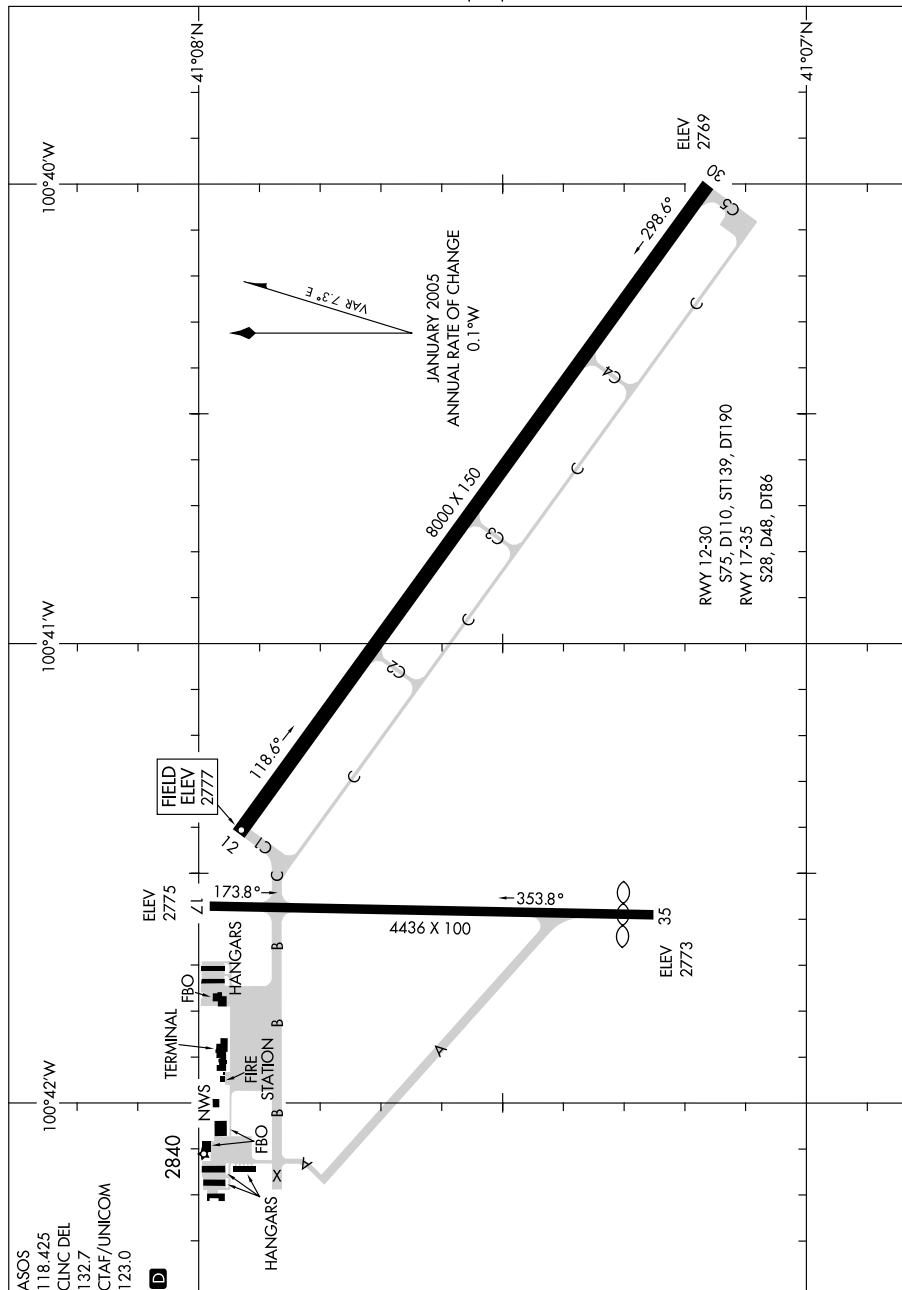
09295

NORFOLK, NEBRASKA
NORFOLK/KARL STEFAN MEMORIAL (OFK)

09295

AIRPORT DIAGRAM

NORTH PLATTE RGNL AIRPORT LEE BIRD FIELD (LBF)
AL-292 (FAA) NORTH PLATTE, NEBRASKA



AIRPORT DIAGRAM

09295

NORTH PLATTE, NEBRASKA
NORTH PLATTE RGNL AIRPORT LEE BIRD FIELD (LBF)

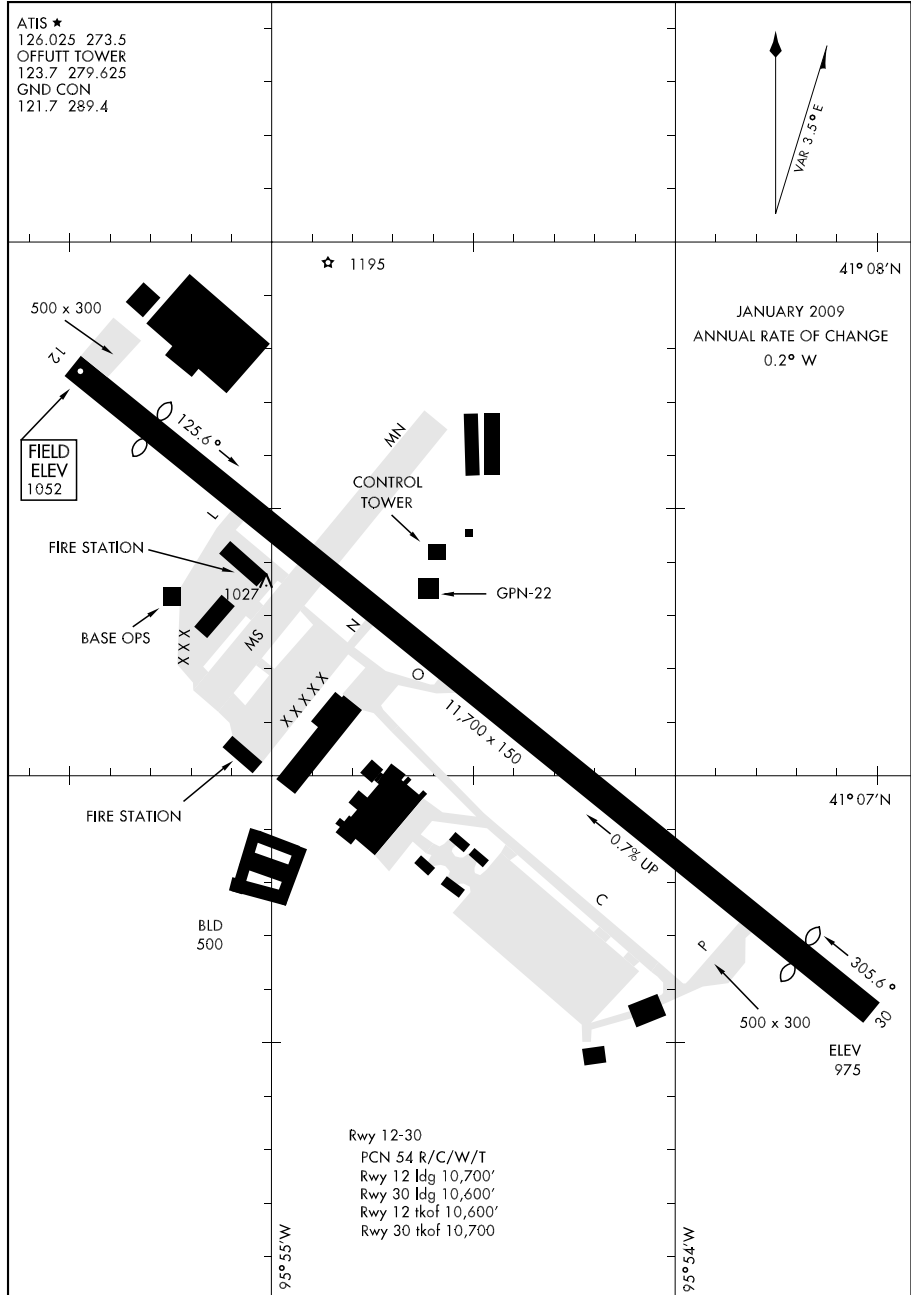
09015

AIRPORT DIAGRAM

AFD-544 [USAF]

OFFUTT AFB (KOFF)

OMAHA, NEBRASKA



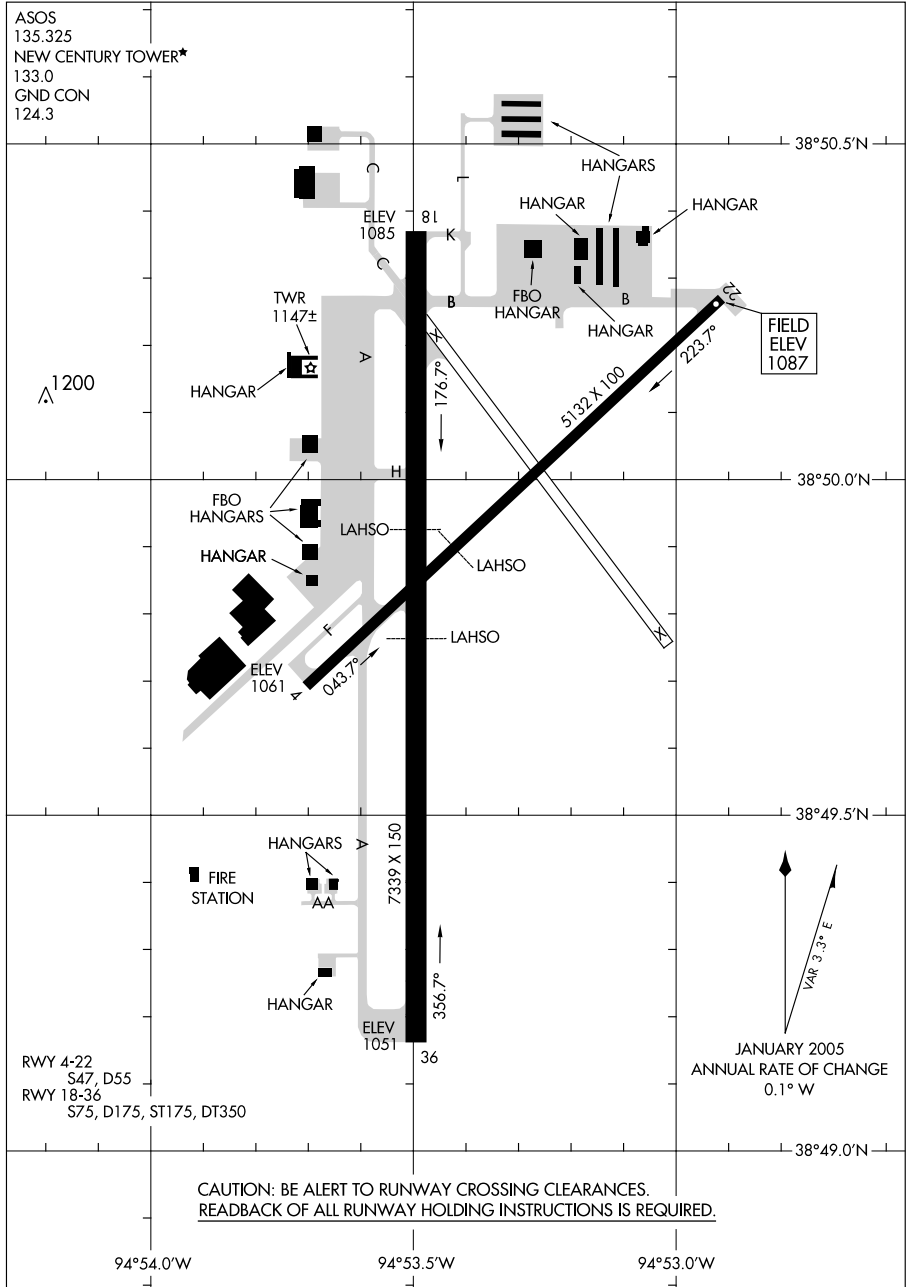
AIRPORT DIAGRAM

09239

AIRPORT DIAGRAM

AL-302 (FAA)

OLATHE/NEW CENTURY AIRCENTER (IXD)
OLATHE, KANSAS



AIRPORT DIAGRAM

09239

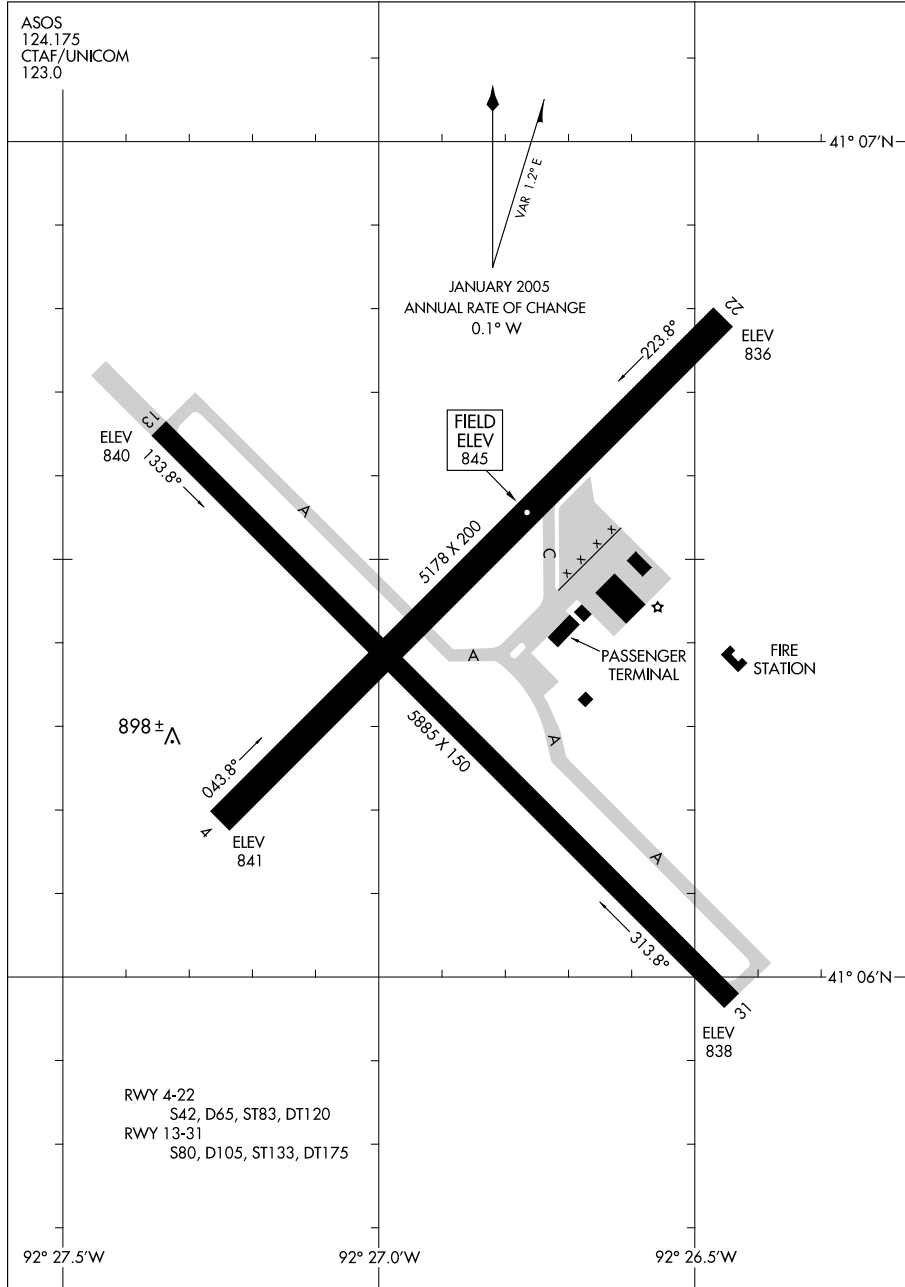
OLATHE, KANSAS
OLATHE/NEW CENTURY AIRCENTER (IXD)

09071

AIRPORT DIAGRAM

AL-915 (FAA)

OTTUMWA RGNL (OTM)
OTTUMWA, IOWA



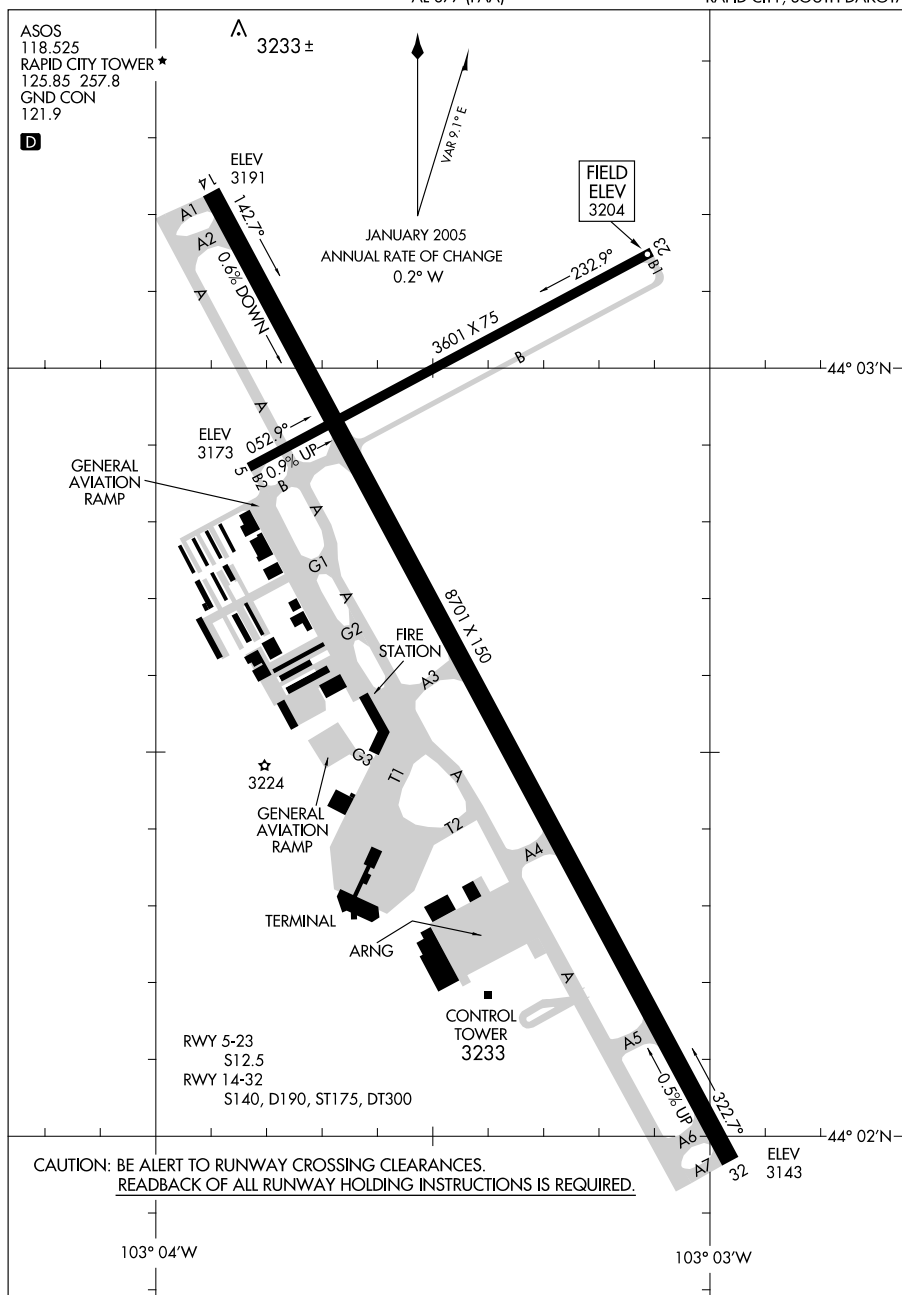
AIRPORT DIAGRAM

09071

OTTUMWA, IOWA
OTTUMWA RGNL (OTM)

09295

AIRPORT DIAGRAM

RAPID CITY RGNL (RAP)
RAPID CITY, SOUTH DAKOTA

AIRPORT DIAGRAM

09295

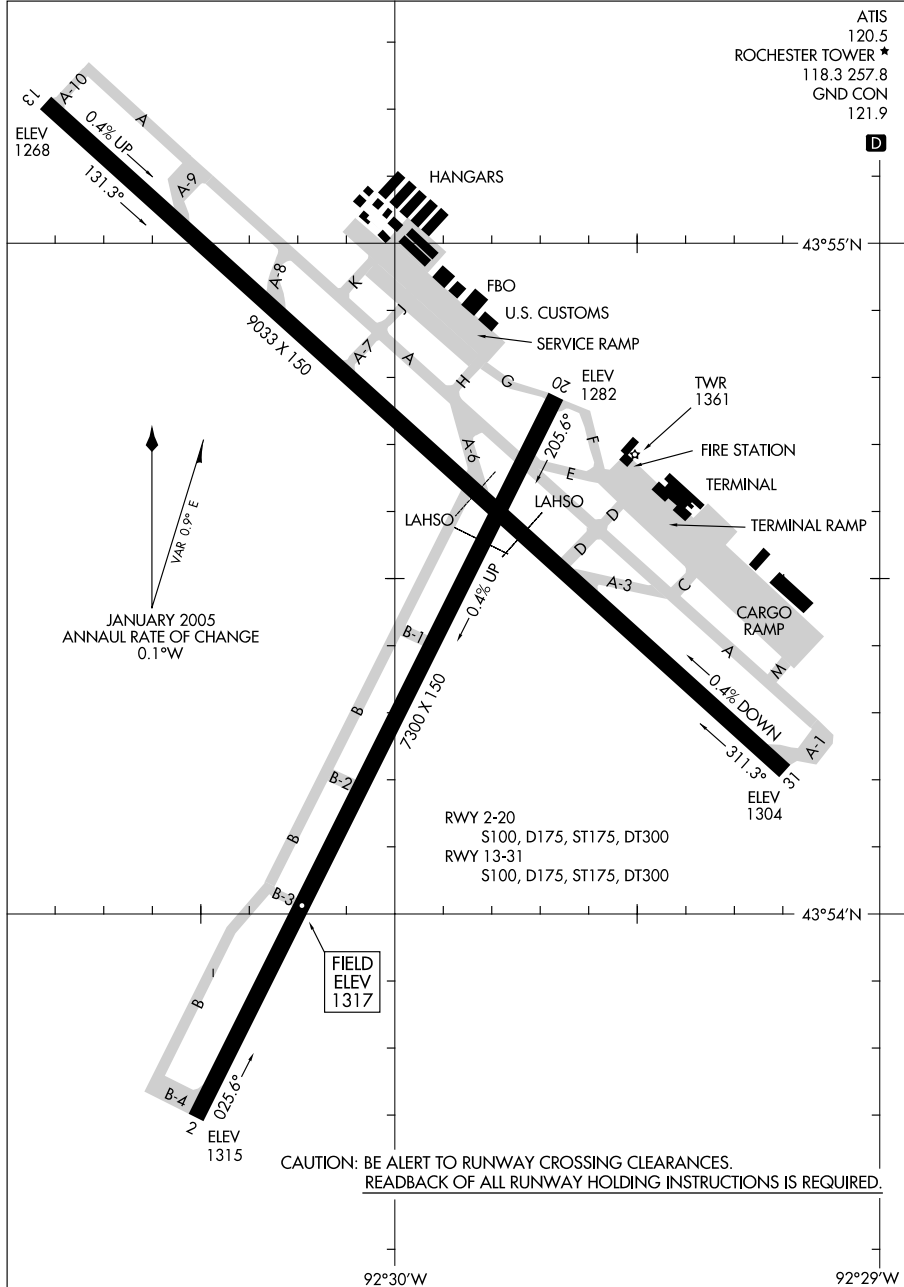
RAPID CITY, SOUTH DAKOTA
RAPID CITY RGNL (RAP)

09295

AIRPORT DIAGRAM

AL-5041 (FAA)

ROCHESTER INTL (RST)
ROCHESTER, MINNESOTA



AIRPORT DIAGRAM

09295

ROCHESTER, MINNESOTA
ROCHESTER INTL (RST)

09295

AIRPORT DIAGRAM

AL-5799 (FAA)

ST. CLOUD RGNL (STC)
ST. CLOUD, MINNESOTA

ATIS

119.375

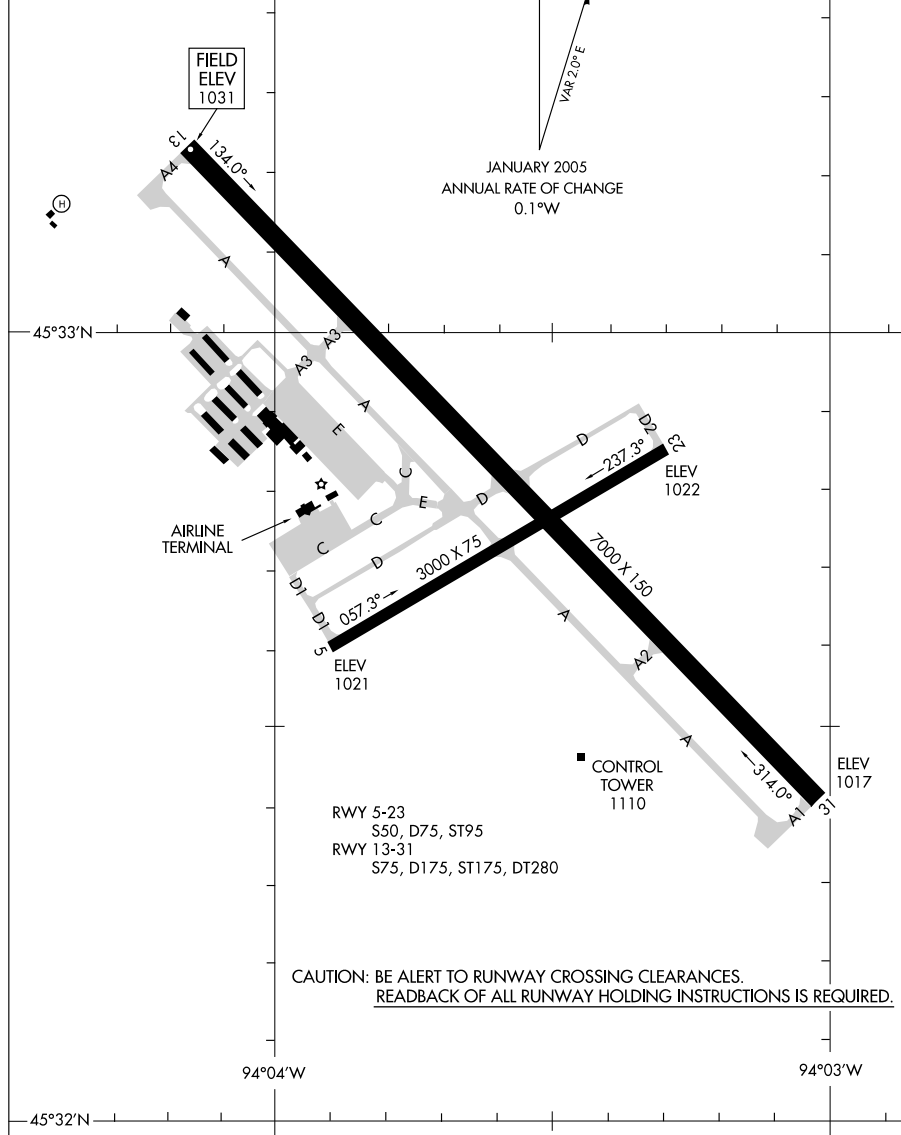
ST. CLOUD TOWER ★

118.25

GND CON

123.75

D



AIRPORT DIAGRAM

09295

ST. CLOUD, MINNESOTA
ST. CLOUD RGNL (STC)

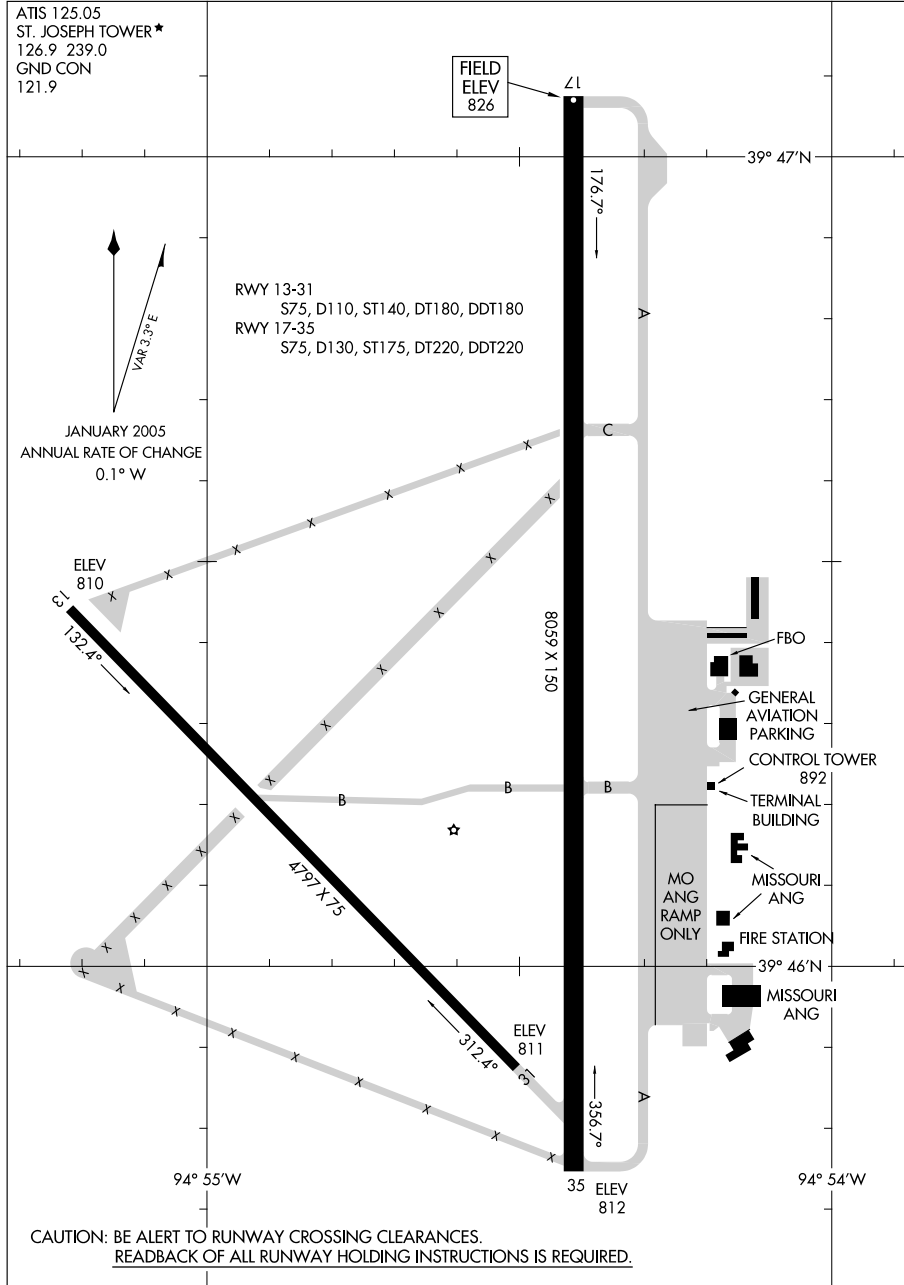
06215

AIRPORT DIAGRAM

ST. JOSEPH/ROSECRANS MEMORIAL (STJ)

AL-359 (FAA)

ST. JOSEPH, MISSOURI



AIRPORT DIAGRAM

06215

ST. JOSEPH, MISSOURI

ST. JOSEPH/ROSECRANS MEMORIAL (STJ)

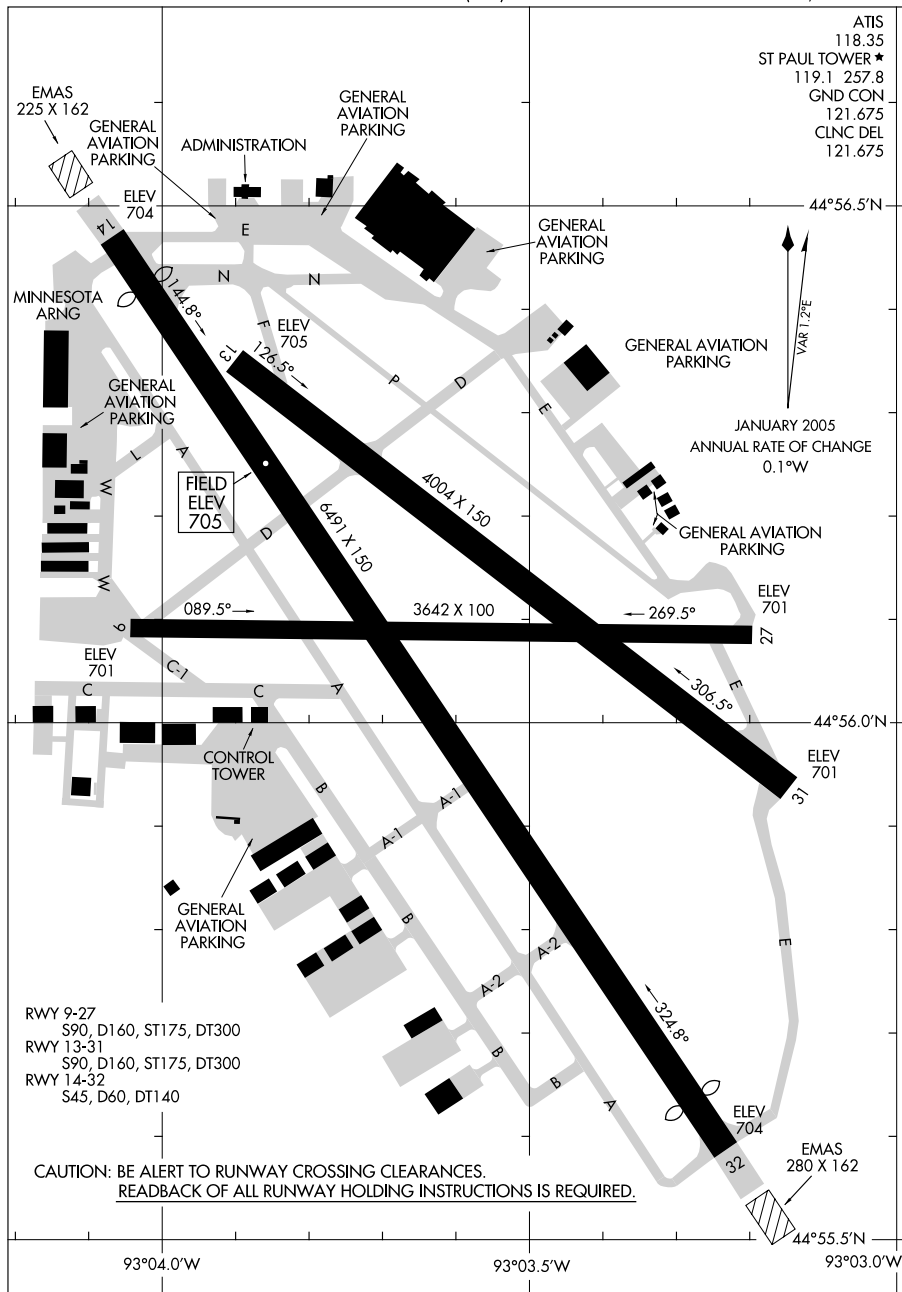
09295

AIRPORT DIAGRAM

ST. PAUL DOWNTOWN HOLMAN FIELD (STP)

AL-263 (FAA)

ST. PAUL, MINNESOTA



AIRPORT DIAGRAM

09295

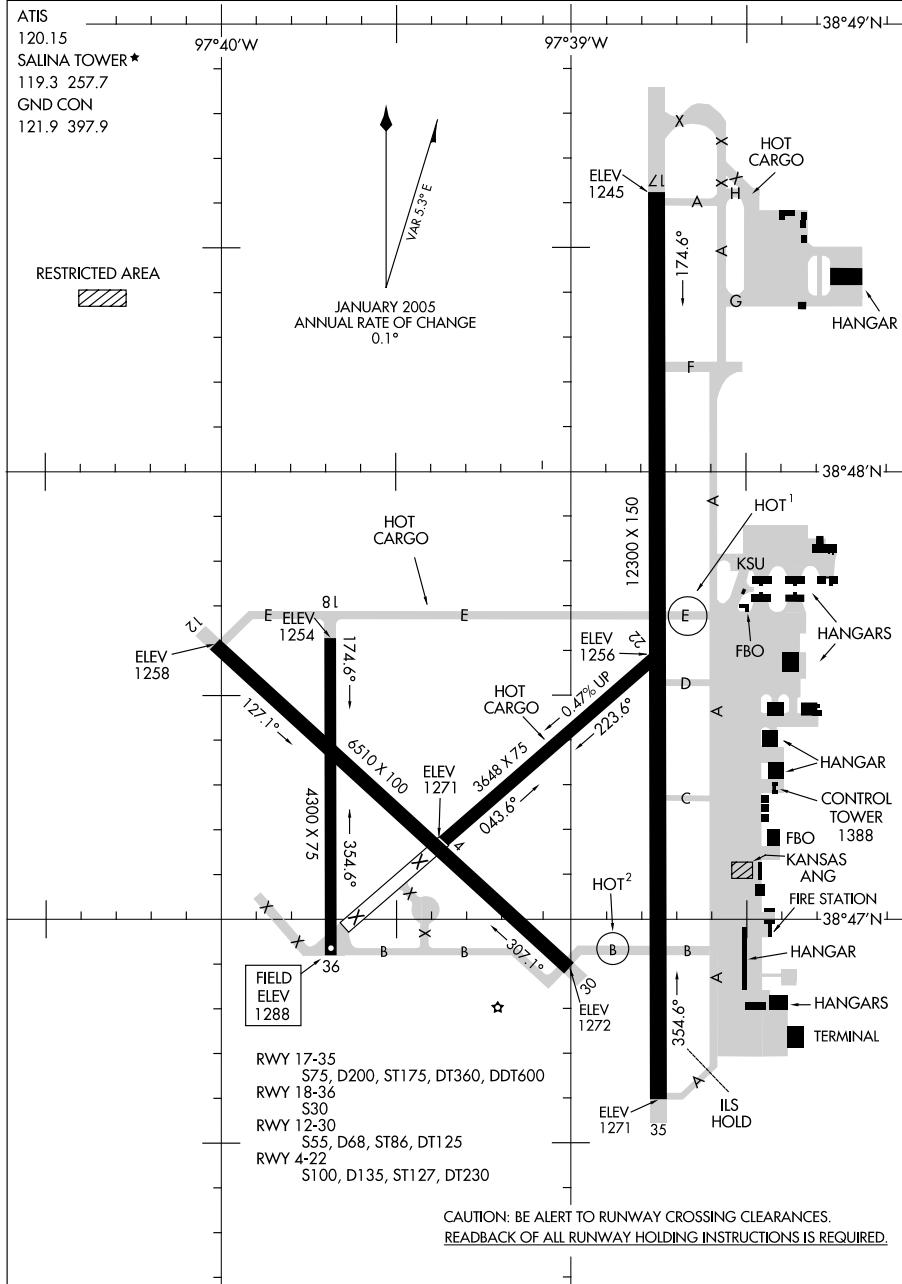
ST. PAUL, MINNESOTA
ST. PAUL DOWNTOWN HOLMAN FIELD (STP)

09239

AIRPORT DIAGRAM

AL-362 (FAA)

SALINA MUNI (SLN)
SALINA, KANSAS



AIRPORT DIAGRAM

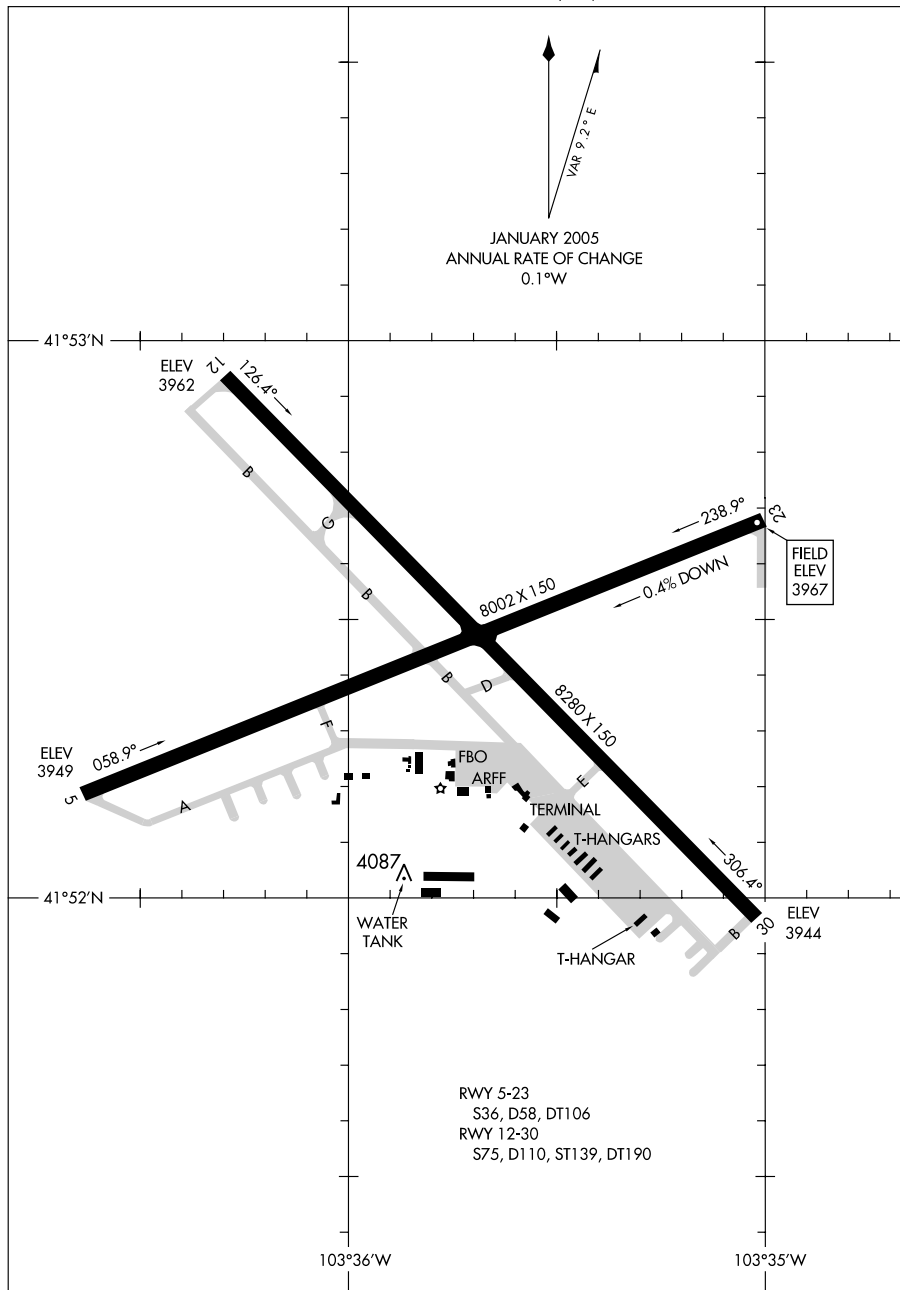
09239

SALINA, KANSAS
SALINA MUNI (SLN)

07298

AIRPORT DIAGRAM

WESTERN NEBRASKA RGNL/WILLIAM B. HEILIG FIELD (BTF)
SCOTTSBLUFF/ AL-383 (FAA) SCOTTSBLUFF, NEBRASKA



AIRPORT DIAGRAM

07298

SCOTTSBLUFF/

WESTERN NEBRASKA RGNL/WILLIAM B. HEILIG FIELD (BTF)

SCOTTSBLUFF, NEBRASKA

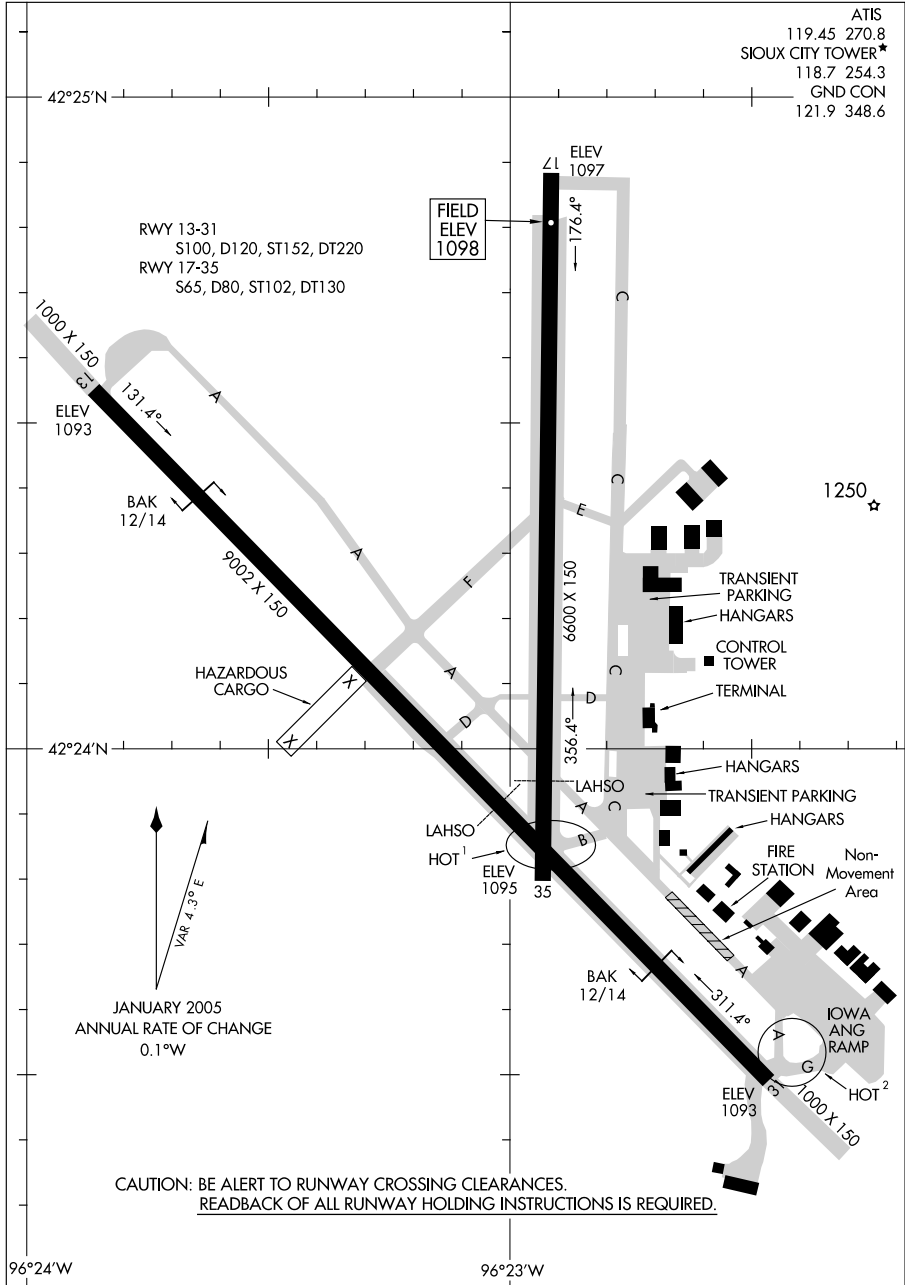
09239

AIRPORT DIAGRAM

SIOUX GATEWAY/COLONEL BUD DAY FIELD (SU'X)

AL-395 (FAA)

SIOUX CITY, IOWA



AIRPORT DIAGRAM

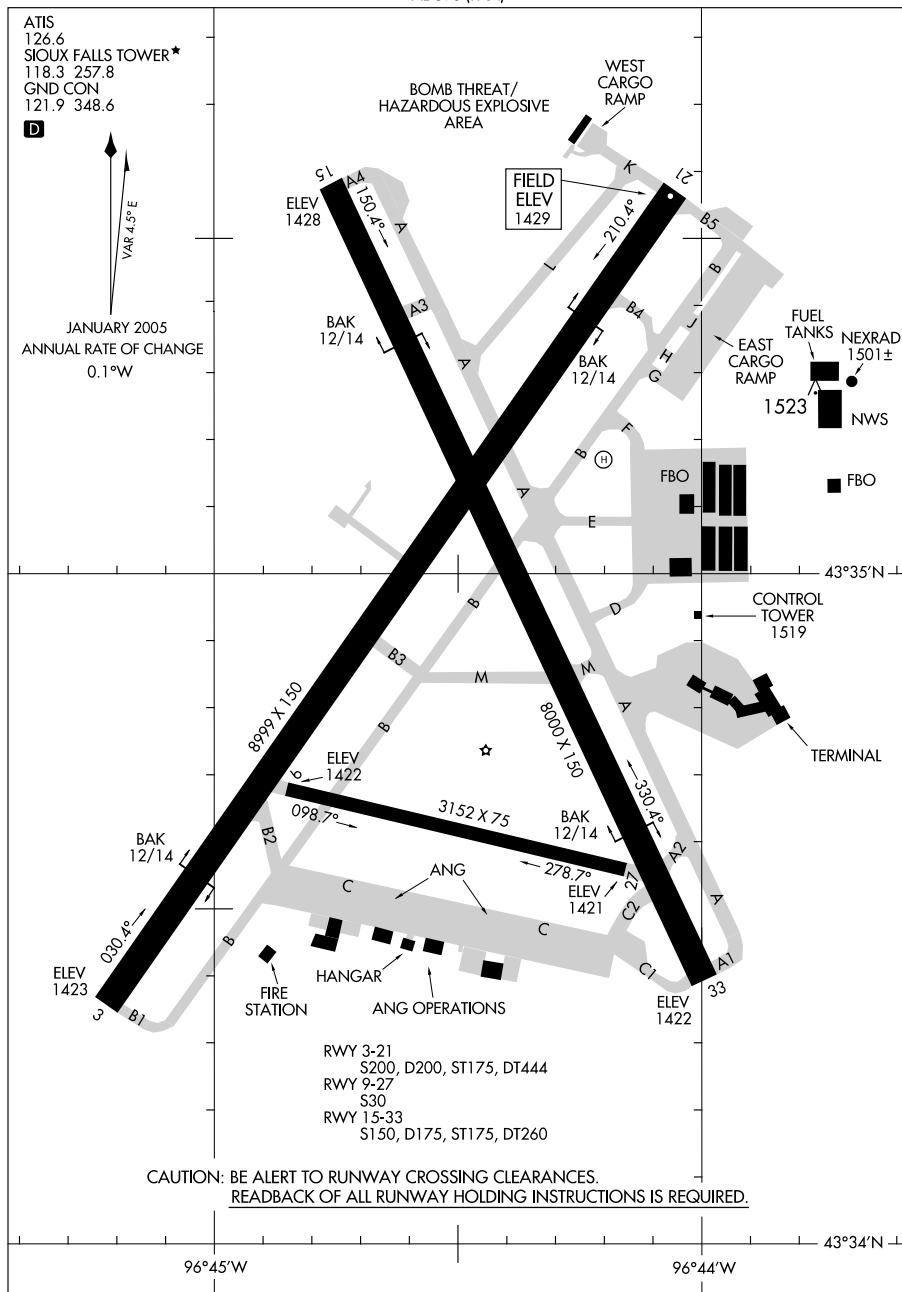
09239

SIOUX CITY, IOWA
SIOUX GATEWAY/COLONEL BUD DAY FIELD (SU'X)

09295

AIRPORT DIAGRAM

AL-396 (FAA)

SIOUX FALLS/JOE FOSS FIELD (FSD)
SIOUX FALLS, SOUTH DAKOTA

AIRPORT DIAGRAM

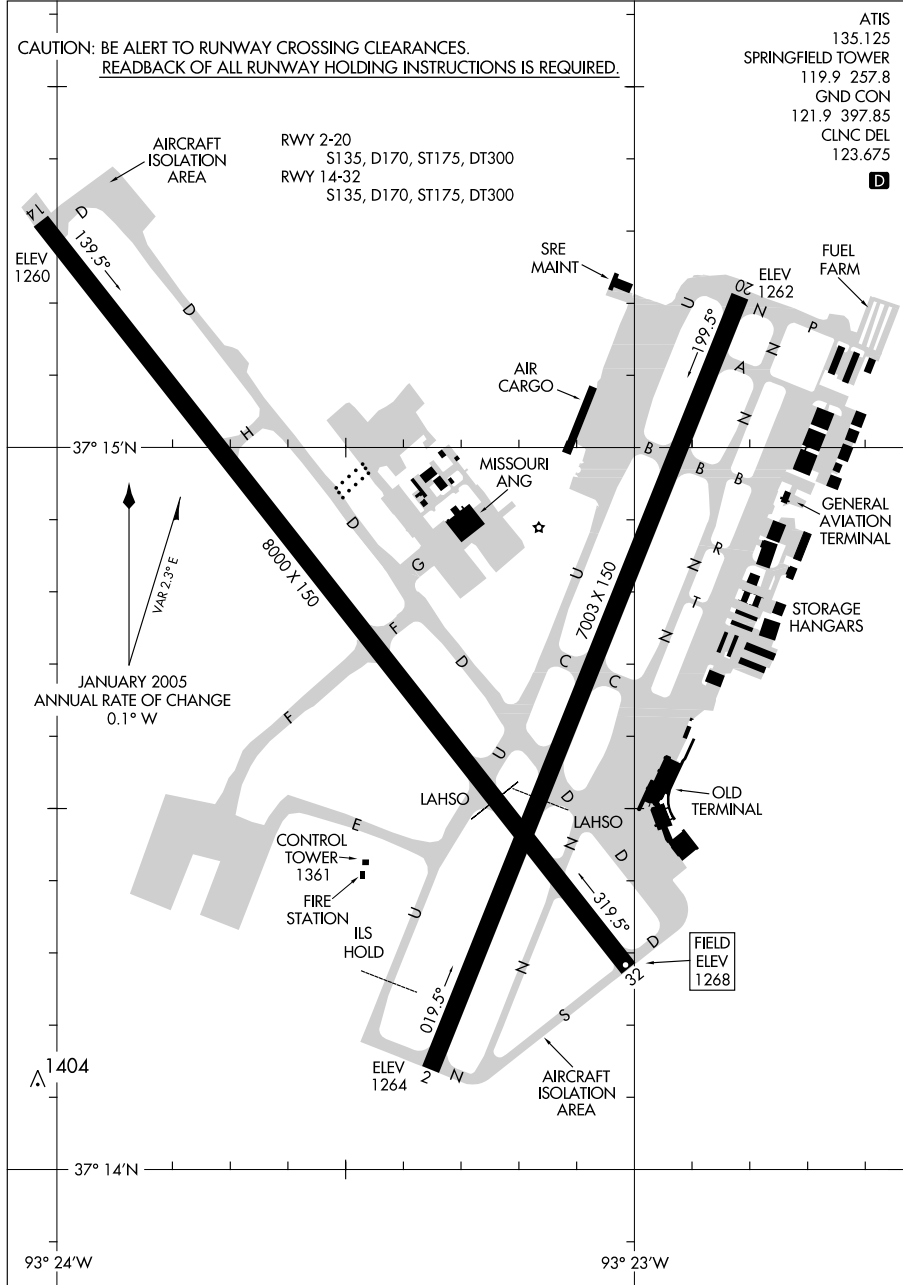
SIOUX FALLS, SOUTH DAKOTA
SIOUX FALLS/JOE FOSS FIELD (FSD)

09295

09295

AIRPORT DIAGRAM

AL-604 (FAA)

SPRINGFIELD-BRANSON NATIONAL (SGF)
SPRINGFIELD, MISSOURI

AIRPORT DIAGRAM

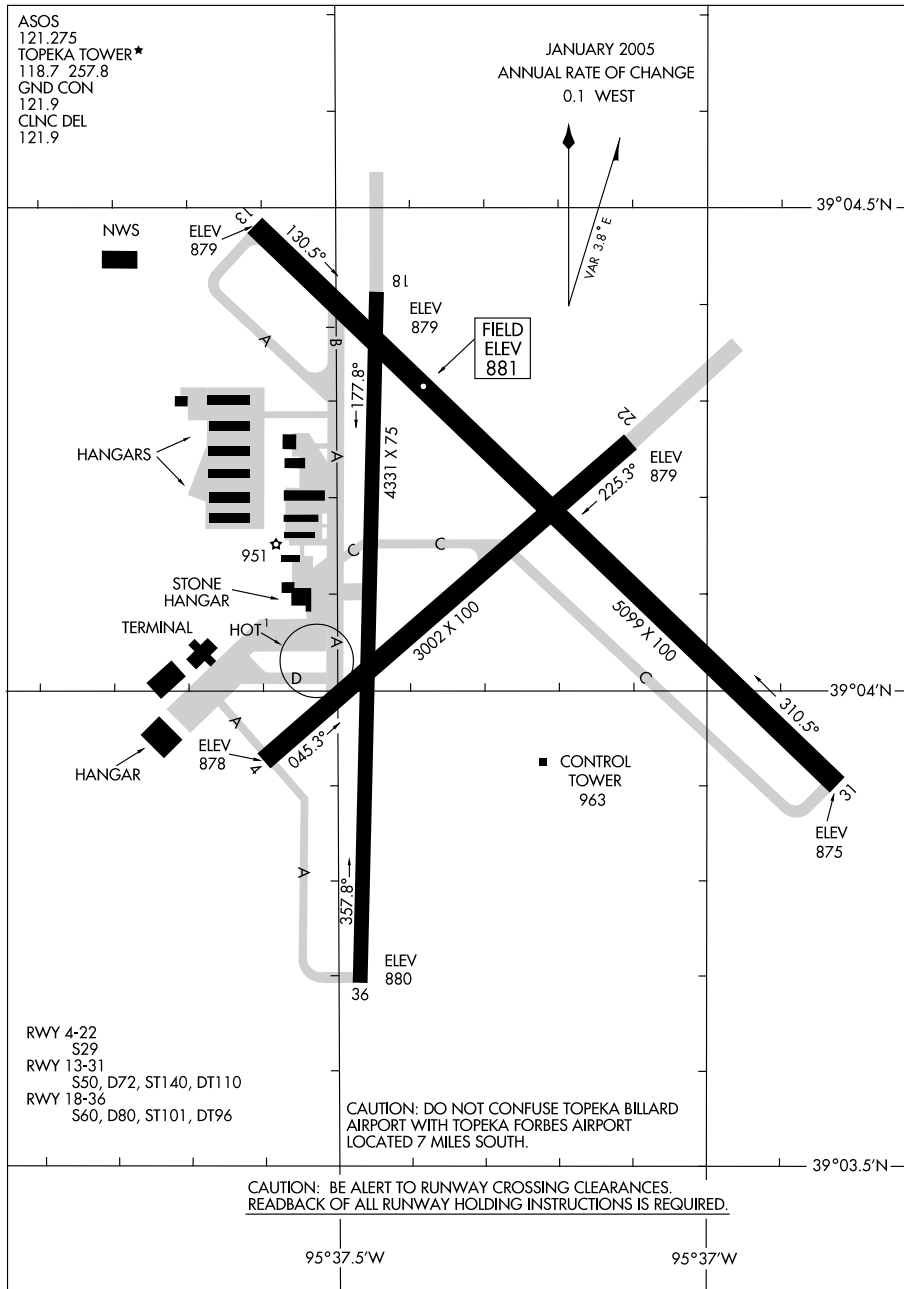
09295

SPRINGFIELD, MISSOURI
SPRINGFIELD-BRANSON NATIONAL (SGF)

09239

AIRPORT DIAGRAM

AL-620 (FAA)

TOPEKA/PHILIP BILLARD MUNI (TOP)
TOPEKA, KANSAS

AIRPORT DIAGRAM

09239

TOPEKA, KANSAS
TOPEKA/PHILIP BILLARD MUNI (TOP)

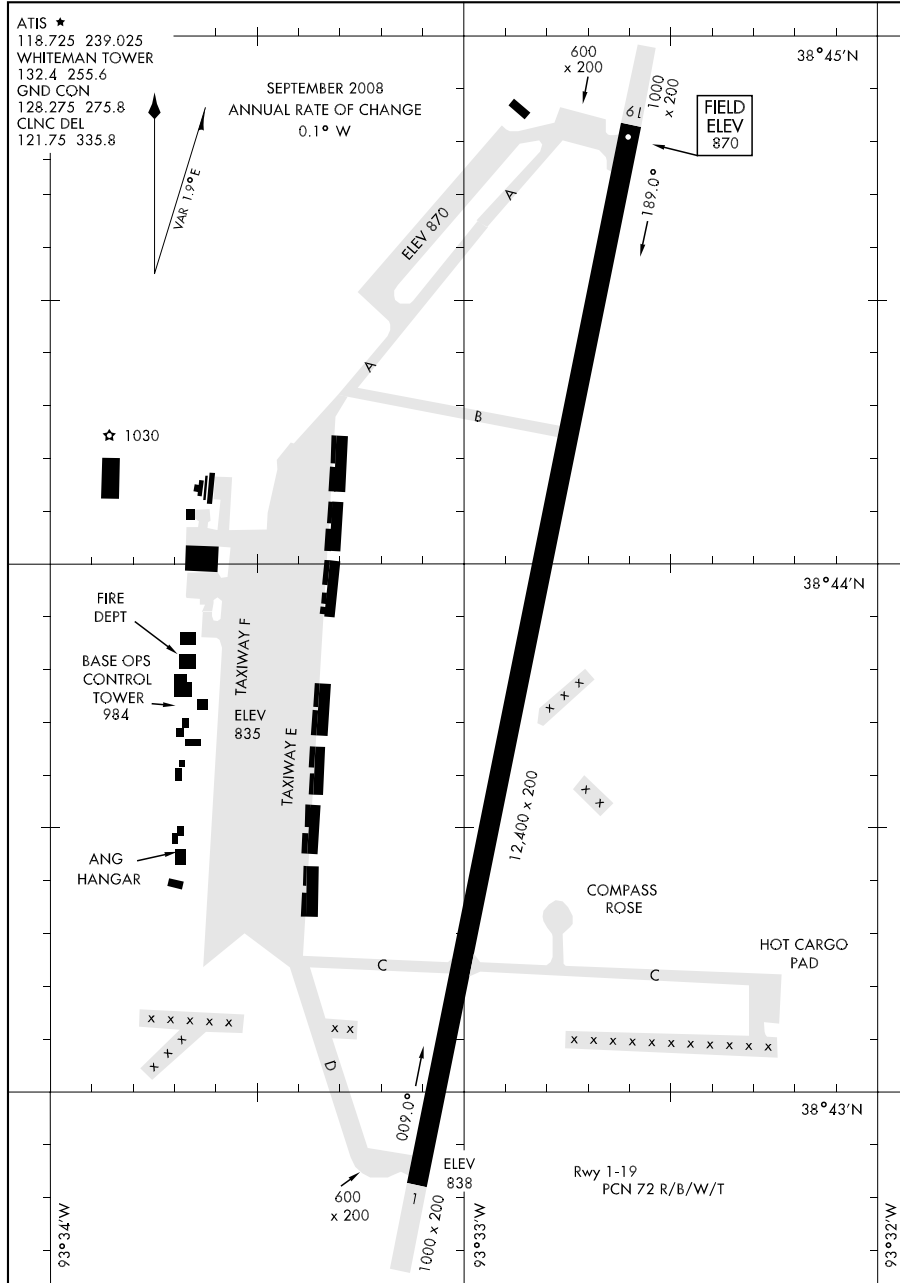
08325

AIRPORT DIAGRAM

AFD-496 [USAF]

WHITEMAN AFB (KSZL)

KNOB NOSTER, MISSOURI



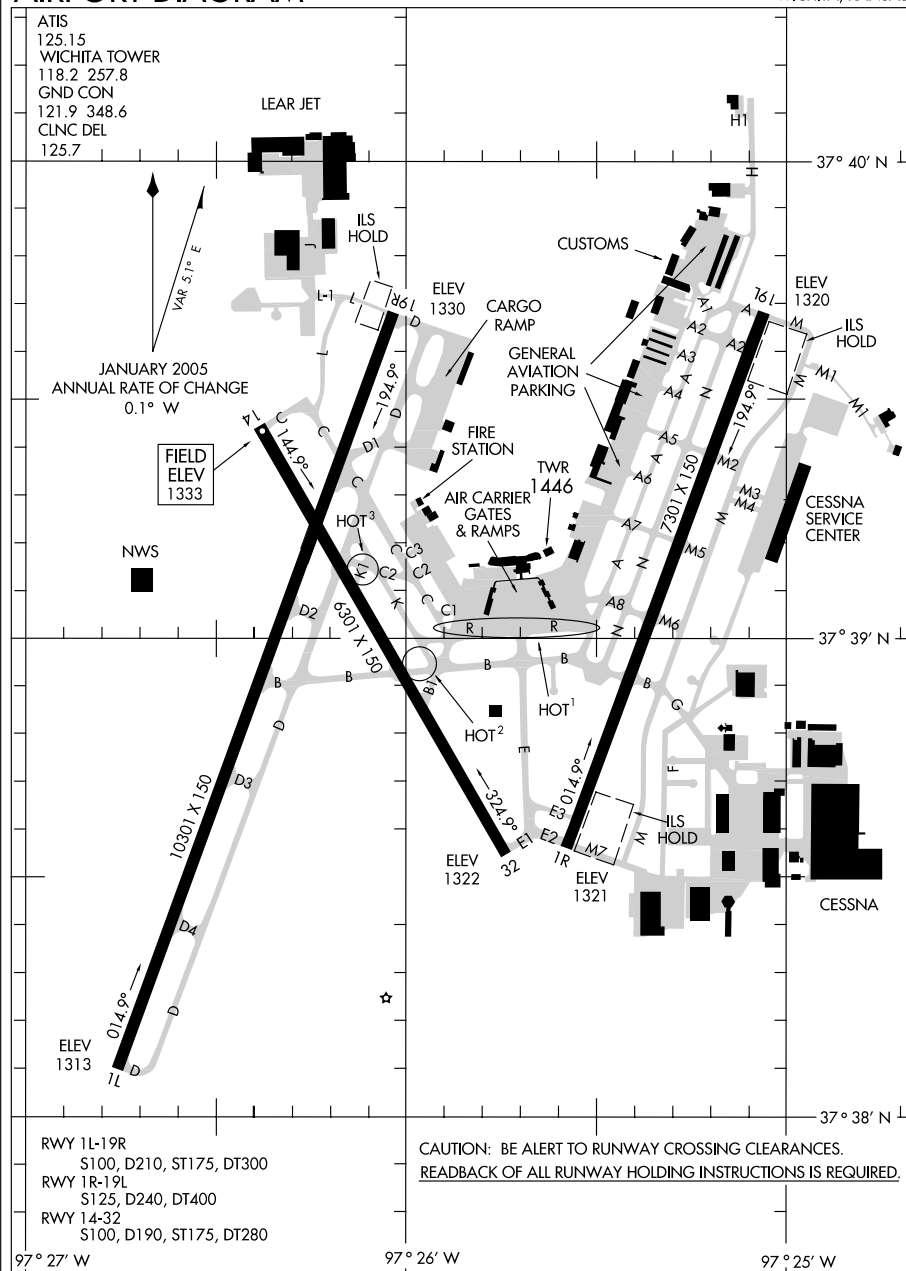
AIRPORT DIAGRAM

KNOB NOSTER, MISSOURI
WHITEMAN AFB (KSZL)

09295

AIRPORT DIAGRAM

AL-987 (FAA)

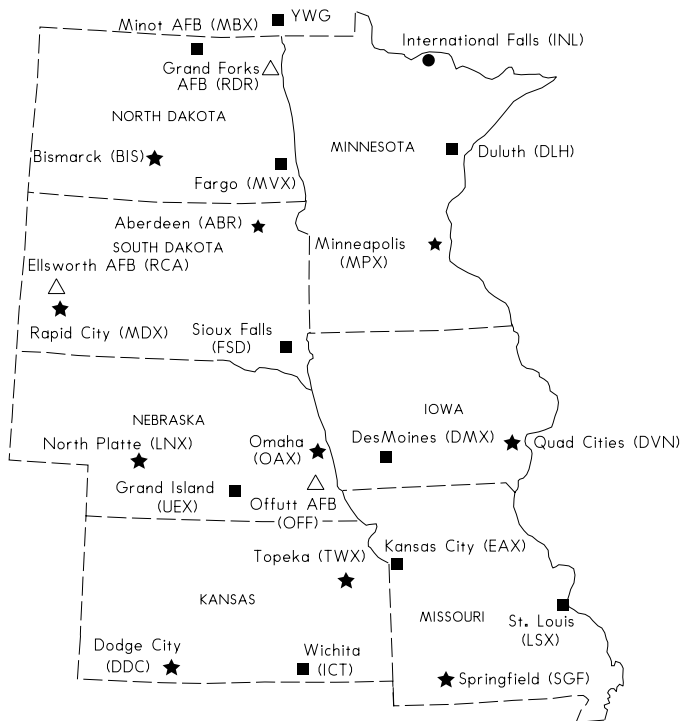
WICHITA MID-CONTINENT (ICT)
WICHITA, KANSAS

AIRPORT DIAGRAM

09295

**INTENTIONALLY
LEFT
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NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATIONS (UAOS) AND WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2300 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.